

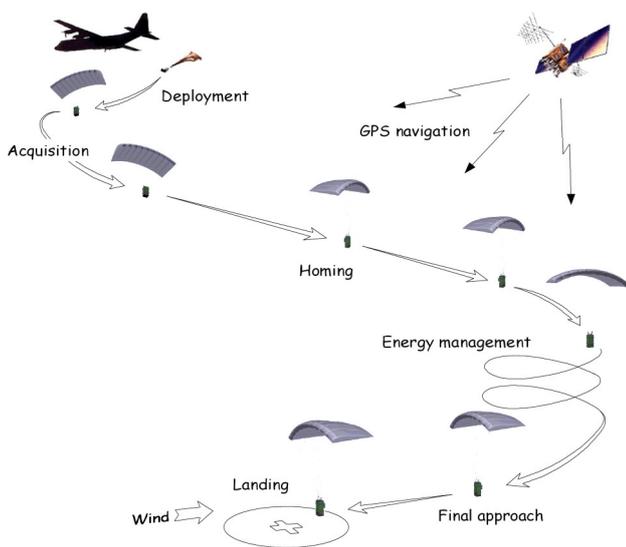
# ACRIDS - Aerial Cargo Rider System

ACRIDS is a guided airdrop system designed for safe and accurate delivery of goods at a selected location in support of military or humanitarian missions. The ACRIDS systems are especially suitable for re-supply or support to tactical and reconnaissance operations. The reusable system ensures portability, ease of operations, ruggedness and simple maintenance procedures, in order to lower the costs, reduce the training time and maximize the operational effectiveness.

The design of the ACRIDS systems is based on the former SPADES experience. The systems have participated in over 300 test drops and with a 50m Circular Error Probability (CEP) capability. ACRIDS can be used with standard military riggings and is compatible with a number of different parafoil types.

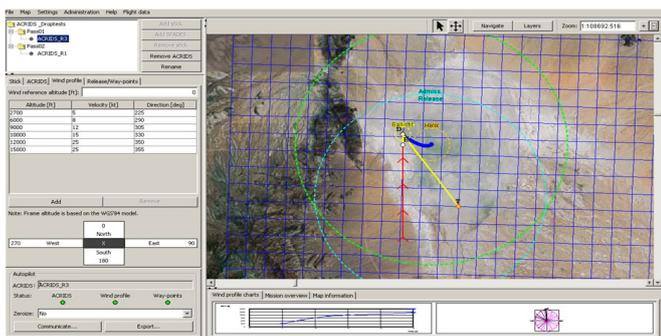


Minutes before drop-off, the mission file can be updated with target location and waypoints. The independent ACRIDS mission planner software can handle up to 15 drops at the same time, each having its individual mission profile. The mission planner software can be installed on any standard PC or notebook. The system is easily checked for operational performance before loading and on-board the aircraft through a built-in test that visually identifies a "ready" or "failed" status. The quick-link steering line connections are easily accessible for attachment and detachment within 1 minute, without having to open the Airborne Guidance Unit (AGU).



## Ease of Operations

The ACRIDS feature of real-time wind detection eliminates the need for gathering wind data before the air drop and consequently does not require an additional fly-by to make actual wind measurements prior to the drop.



For mission planning no other wind information is needed than what is generally available and used for standard manned flight mission planning.

## Performance & Features

- Accuracy better than 50m CEP
- Stand-off 25 – 40 km
- Supports drops from high altitudes (max 25.000 ft)
- Real-time wind detection (no wind sondes needed)
- Safe asymmetric parachute opening
- Landings performed with flare
- User-friendly stand-alone ACRIDS Mission Planner for 15 missions and 10 waypoint per mission
- Wireless or Ethernet mission file loading
- Choice from different pre-programmable landing strategies
- Single-point payload connection
- Commercial GPS and with docking facility for Mil-GPS
- Flight S/W erase and Mil-GPS zeroize function (manually or automatic upon landing)

The **ACRIDS-1100** series with a 1200 sqft R3 parafoil is designed for payloads between 300 and 1000 kg. In combination with the 400 sqft R1 parafoil, the lower payload range can be extended to 70 kg. Both parafoils can be used on the same control unit.

- Payload range 100 - 1,000 kg (200 – 2,200 lbs)
- Bare AGU weight: 34kg (76 lbs) incl. batteries



The ACRIDS-1100 AGU weighs only 34 kg (75 lbs) including two removable battery packs. The system is supported by an external protective frame for parachute and payload attachment and for protection against severe unintended impacts. The unique 'box & frame' concept allows for ease throughout the rigging process. The payload, frame and parachute can be pre-rigged completely, enabling AGU insertion/exchange until the last minute before drop. Once on the ground, the AGU can be rapidly removed for man-carried recovery from the landing zone. In field situations, the frame and batteries can be disposed of if necessary, with low replacement cost.

## Contact information

For further information, please consult our website or contact us at:

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The **ACRIDS-310** series is designed for payloads up to 300 kg and is equipped with the 400 sqft R1 parafoil. The ACRIDS-310 system weighs only 15,5 kg (35 lbs) including batteries, allowing easy handling throughout the rigging process and when being man-carried from the landing area. The docking facility for a MIL GPS allows easy access to remove the GPS after landing.

- Payload range 100 - 300 kg (200 – 700 lbs)
- AGU weight 15.5 kg (35 lbs) incl. batteries



In both types, a zeroize button in the connector panel is an extra facility to manually erase the software of the onboard computer, besides the automatic option that reacts upon landing. The zeroize function includes the Mil-GPS device.

Both AGU types can be equipped with remote control facility to enable two-way communications between the system and the operating personnel. This feature can be used for all kinds of testing purposes, as well as for remote control during flight.