

Supports Parachute Ballistics and Aircraft Data  
Dynamic Guidance to the Air Release Point

# Airdrop Module

## For Multi-Mission Management System (MMMS)

Supports:

- Low Altitude Computed Air Release Point (CARP)
- High Altitude Computed Air Release Point (HARP)
- Very Low Altitude (VLA) Package Delivery

## Unmatched Support For Special Mission Operations

Airdrop is an optional module available for Universal Avionics' Multi-Mission Management System (MMMS) that calculates an Air Release Point (ARP), and provides guidance and steering to a position offset where the delivery should exit the aircraft for a landing at the desired drop zone.

The MMMS with Airdrop provides dynamic guidance to the ARP updated continuously until 15 seconds prior to the release. Discrete output signals can be used to indicate approach to the ARP within one minute, arrival at the ARP and reaching the end of release to provide delivery within the specified target zone. Airdrop also includes an automatic "holding pattern" reversal and repeat for more than one pass over the drop zone. Wind and release parameters can be adjusted during the return for subsequent releases.

Specific parachute ballistic and aircraft data can be conveniently created offline via a Universal-supplied PC tool, and loaded into the MMMS using the Solid-State Data Transfer Unit (SSDTU).

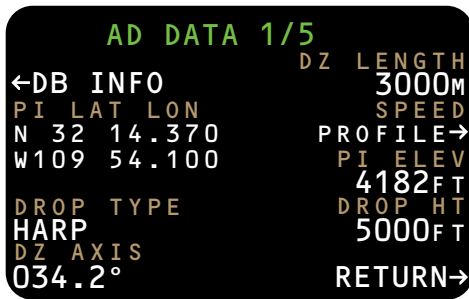
Airdrop delivery profiles can be created directly through the MMMS Control Display Unit, or ahead of time with the offline PC tool. Once loaded, the profile can be changed or edited by the flight crew prior to commencing the airdrop release.

Unmatched support for special mission operations, Universal Avionics MMMS offers precision Airdrop for mission success.

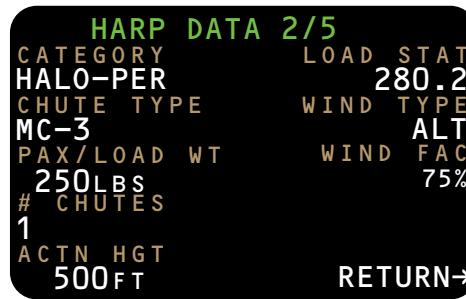
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# Airdrop MMMS Pages

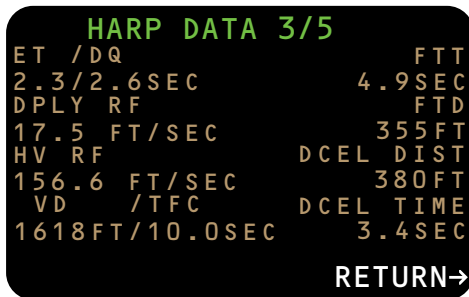
Note that page titles and content will vary depending on what drop type, wind type and other parameters are selected.



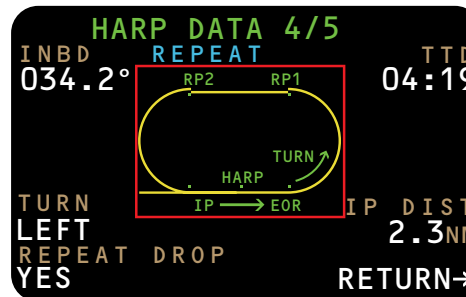
On Data Page 1, the operator can enter Point of Impact location, aircraft speed profiles related to the Air Release Point and edit other drop profile parameters.



Airdrop Data Page 2 displays information for the selected type of airdrop including chute data, load parameters and wind considerations.



Data Page 3 shows informational type data pertaining to the deployed item fall rates, times, decelerations and travel distances.



Airdrop Data Page 4 displays navigation information relating to the loaded airdrop profile including repeat pattern flight path data.



Airdrop Data Page 5 displays airdrop status information in relation to the loaded profile.

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