

SD-150 HERO



## SHORT-RANGE TACTICAL UAV

The HERO UAV incorporates highly advanced technology features which exploit Leonardo Helicopters' extensive experience in helicopter development:

Rugged landing gear for all surface operation; optimized three-blade main rotor, with reduced vibration generation to maximize overall payload performance. The articulated main rotor allows the blades to be easily and rapidly folded and unfolded, to reduce pre/post mission time.

The Hero is designed to fulfill both civil and military certification regulations.



## MAINTENANCE AND SUPPORT

Hero UAV is designed to reduce maintenance costs with respect to similar platform, due to a low maintenance, 2-stroke 2-cylinder engine. Complete 24/7 support is provided by an experienced customer care department.

## MODULAR PAYLOAD BAYS

Two modular payload bays can host a wide range of sensors from Leonardo-Finmeccanica, as well as from other suppliers.

The nose bay can accommodate a payload up to 20 kg. The underbelly bay provides a payload capability up to the maximum payload weight.

## MAXIMIZED RELIABILITY

System reliability is maximized with several safety features:

- Triple-redundant flight control and navigation systems
- Dual-redundant electrical system
- Independent flight termination system
- Completely autonomus emergency procedures
  - back home
  - link loss
  - GPS loss
  - autorotation
- Autonomus on-board terrain and obstacle avoidance

## DATA LINK

### Compact C&C data-link

- UHF bandwidth
- Secure encrypted transmission
- Long-range coverage (up to 100 km)
- Full-duplex solution provides complete hardware redundancy to maximize mission reliability

### Payload data-link

- COFDM technology, DVB-based
- Long-range coverage (up to 100 km) with multipath immunity
- Up to 2 simultaneous full HD video transmissions
- State-of-the-art compression technologies (H.264) and encryption system (AES-256)
- GPS based auto-tracking capability

## Performance

Endurance	5 hours with 15 kg payload
Operational ceiling:	4000 m / 13100 ft
Max take-off altitude:	3000 m / 9850 ft
Max cruising speed:	184 kph / 100 kts
Max endurance speed:	90 kph / 50 kts

## Dimensions

Main rotor diameter:	3500 mm / 138 in
Length	3300 mm / 130 in
Height	1180 mm / 46 1/2 in
Width (with folded rotor):	1030 mm / 40 1/2 in

## Weight

Max take-off weight (MTOW):	150 kg / 330 lb
Empty Weight:	100 kg / 220 lb
Payload:	50 kg / 110 lb



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