

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

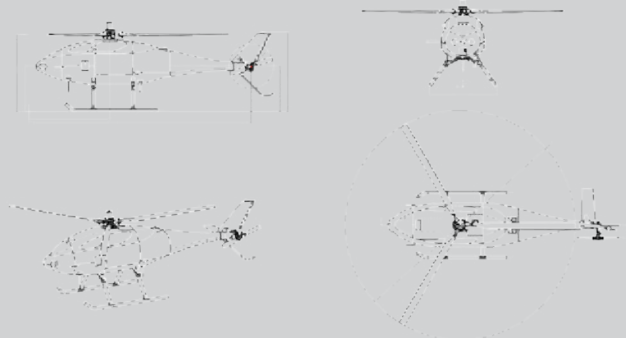
Endurance	5 hours with 15 kg payload
Operational ceiling:	4000 m / 13100 ft
Max take-off altitude:	3000 m / 9850 ft
Max cruising speed:	184 kph / 100 kts
Max endurance speed:	90 kph / 50 kts

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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