

# SD-150 Hero UAV

Unmanned Aerial Vehicle



## SD-150 Hero UAV

The SD-150 Hero UAV incorporates highly advanced technology features which exploit AgustaWestland's and IDS's 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 SD-150 Hero is designed to fulfill civil certification regulations.

## Maintenance and support

The SD-150 Hero UAV is designed to reduce maintenance costs in respect to similar platforms, due to a low maintenance 2 stroke 2 cylinder engine.

Complete 24/7 support is provided by IDS's experienced customer care department.

## Modular payload bays

Two modular payload bays provide support for a wide range of sensors from different 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.

State-of-the-art unmanned helicopter

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## Maximized reliability

System reliability is maximized by several safety features:

- Triple redundant flight control and navigation systems
- Dual redundant electrical system
- Independent flight termination system
- Completely autonomous emergency procedures
  - back home
  - link loss
  - GPS loss
  - autorotation
- Autonomous 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

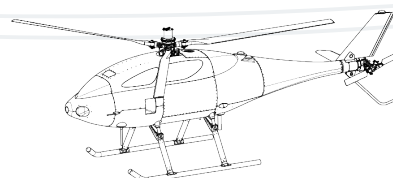
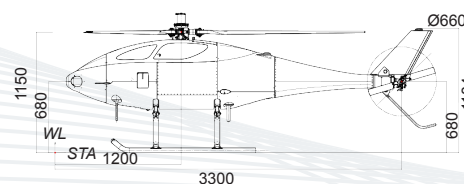
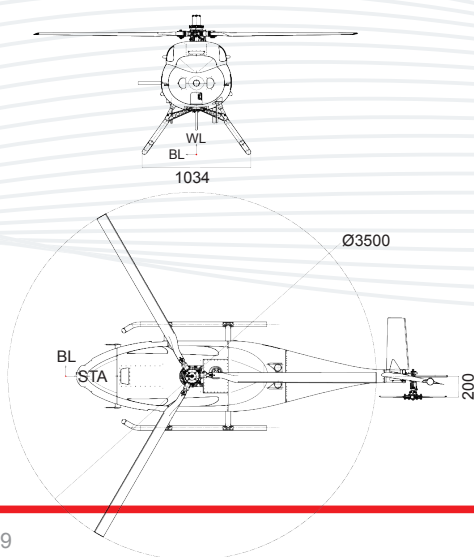
|                       |                            |
|-----------------------|----------------------------|
| Endurance:            | 5 hours with 15 kg payload |
| Operational ceiling:  | 4000 m / 13100 ft          |
| Max takeoff altitude: | 3000 m / 9850 ft           |
| Max cruising speed:   | 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 / 46½ in |
| Width (with folded rotor): | 1030 mm / 40½ in |

## Weight

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



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