



FLEXIBLE, MODULAR
TRULY UNIQUE

VTOL PLATFORM

R-350

VTOL Remotely Piloted Aerial System

Introduction to the System

R-350 - VTOL Remotely Piloted Aerial System (RPAS)

The R-350 sets the standard in automated Vertical Take-off and Landing (VTOL) RPAS.

The R-350 light tactical high-performance platform includes an ability to carry payloads of up to 30 kg for 2+ hours, a unique offering in its class. In addition, the new design can easily be certified for all aerospace classifications and combines a smart modular design, short turnaround time, and built-in test functionality. It includes a complete propulsion unit that can be replaced in less than 45 minutes, and a jet-turbine that can be changed in less than 15 minutes.

Being under 150 kg Maximum Take-Off Weight (MTOW), the R-350 requires only national certification, adding to its ease of use and operation. It can also deploy multiple payloads at the same time, i.e. Electro Optical/Infrared (EO/IR) camera together with Laser Imaging Detection and Ranging (LiDAR), or Chemical Sniffer.

The R-350 operates on heavy fuel, enabling it to perform on navy ships and other maritime vessels. Finally, complete assemblies can be outsourced to specialist companies.

Payload Flexibility

A Wide Variety of Payloads Available Across all Platforms Multiple Payloads Key to Capability

UMS SKELDAR's R-350 offers a variety of sensors from multiple suppliers, giving it the ability to be completely flexible based on requirements. Our experts will work with you to determine the best fit of performance and price to meet your exact needs.



Payload Example with EO/IR and LiDAR

EO/IR Sensor

The R-350 provides multiple options for advanced stabilised electro-optical and infrared sensors including the gyro-stabilised EO/IR sensor.

The R-350 can also include Multiple Lasers, Low-Light TV, Integrated Tracking Modules and HD Capability.



Payload Example with EO/IR and LiDAR

Remote Pilot Station (RPS)

UMS SKELDAR's Remote Pilot Station (RPS) is at the cutting edge of technology thanks to its ability to be easily used by both the R-350 and V-200.

Supported by an experienced and dedicated team of engineers and training professionals, this unbeatable combination is designed to provide customers with the best possible solution.





Key Features

- Heavy fuel jet engine
- Multiple payload capabilities
- Up to 12 kg in nose & 30 kg in main payload bay
- ITAR-free
- Small logistical footprint
- Modular design, easy to maintain
- Vertical Parachute Rescue System (VPRS)

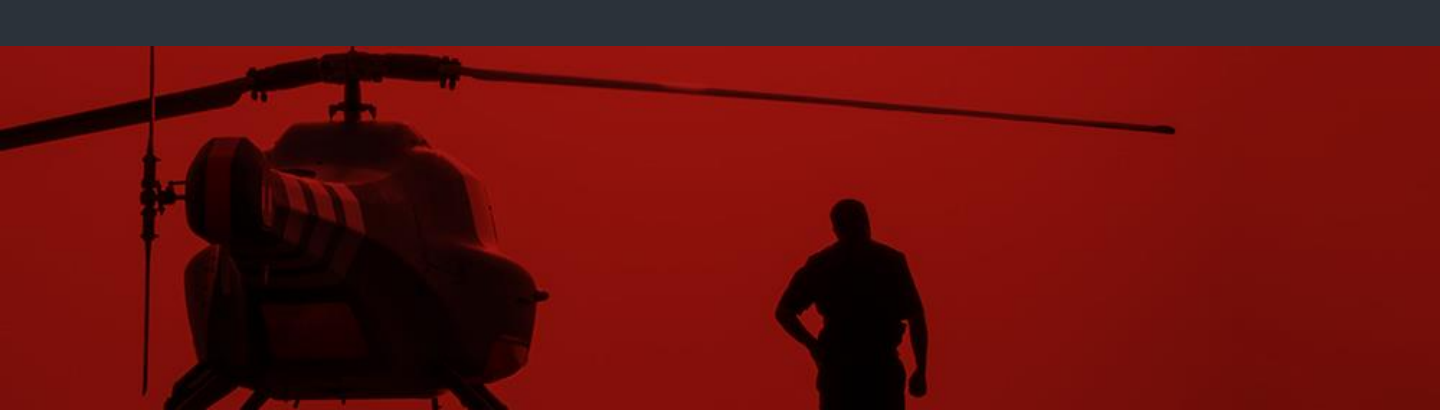
R-350 leads the way with jet-turbine propulsion engine. This ITAR-free Tactical Helicopter is unique in its class, providing a jet-turbine engine propulsion system that uses Jet A1 and JP8 – ideal for maritime scenarios.



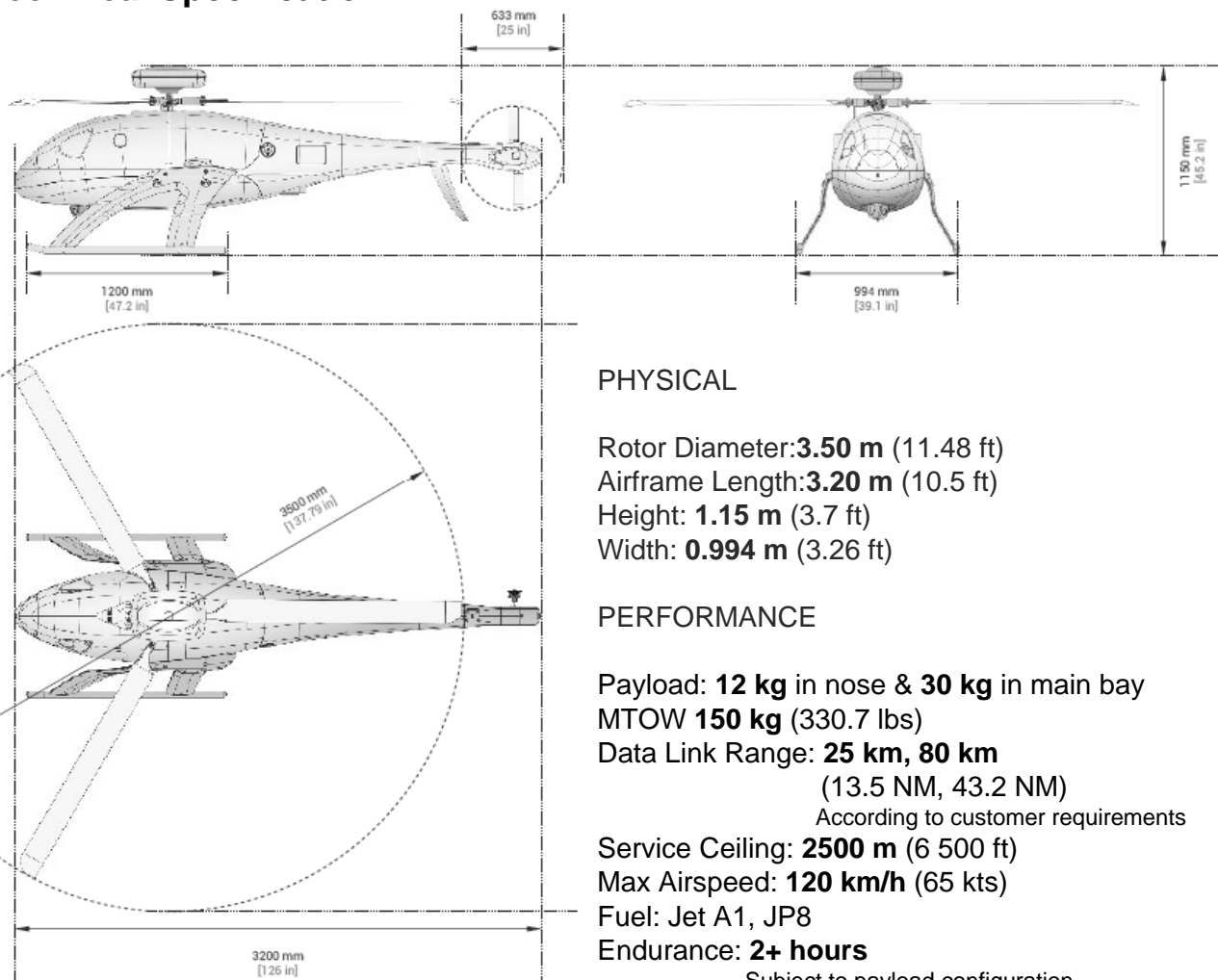
UMS SKELDAR's

Design Vision

Our vision is to have a modular design methodology with 3 key attributes:
Design for production – focus on simplicity through unifying smart systems into modular assemblies
Maintenance concept – based on the ability to quickly interchange major subsystems
Operations – the system operates smartly and efficiently all the while actively supporting safety and reliability



Technical Specification



PHYSICAL

Rotor Diameter: **3.50 m** (11.48 ft)
 Airframe Length: **3.20 m** (10.5 ft)
 Height: **1.15 m** (3.7 ft)
 Width: **0.994 m** (3.26 ft)

PERFORMANCE

Payload: **12 kg** in nose & **30 kg** in main bay
 MTOW **150 kg** (330.7 lbs)
 Data Link Range: **25 km, 80 km**
 (13.5 NM, 43.2 NM)
 According to customer requirements
 Service Ceiling: **2500 m** (6 500 ft)
 Max Airspeed: **120 km/h** (65 kts)
 Fuel: Jet A1, JP8
 Endurance: **2+ hours**
 Subject to payload configuration



Example of container for cargo operations: Ideal tool for Blue Forces who require ease of deployment due to modular design methodology.