



LEONARDO HELICOPTERS

AW139M

 **LEONARDO**

AW139^M

THE BENCHMARK FOR MODERN
MULTI-ROLE OPERATIONS





DELIVERING CAPABILITY FOR DEMANDING MISSIONS

The AW139M is the military variant of the AW139, the market-leading helicopter that sets the benchmark for the twin-engine intermediate class. Developed to meet the demanding requirements of government, homeland security, and military users, the AW139M is engineered to perform a wide range of missions, across the most challenging environments.

Operators worldwide benefit from advanced technology, high power margins, and inherently high levels of safety and survivability. State-of-the-art digital avionics enable Day/Night VFR, IFR, and NVIS operations, enhancing situational awareness while reducing pilot workload.

The largest reconfigurable cabin in its class maximizes mission flexibility, allowing rapid installation of specific equipment and weapons to meet diverse operational needs across, from tactical transport, to patrol and SAR/CSAR.

Combining cutting-edge technology, unmatched performance, and unrivalled safety, the AW139M delivers exceptional multi-role land and maritime capability in the most demanding conditions worldwide. Its maritime effectiveness is further enhanced by features such as lashing points and folding main rotor blades, enabling secure deck operations in adverse weather and efficient stowage in appropriately sized hangars. In addition, the wheeled undercarriage facilitates easy handling and movement both on the ground and on deck using standard handling systems.



AW139M KEY FEATURES

AIR VEHICLE

- Compact footprint for confined area operations (D-Value 16.66 m)
- Fully articulated Main and Tail Rotors providing agile handling during Nap of the Earth (NOE) flight
- Optional 60 min certified dry-run capable Main Gearbox
- Large Cabin 2.70 m (l) x 2.10 m (w) x 1.42 m (h); Cabin Volume 8.00 m³
- Two large sliding doors (1.6 m wide)
- Critical systems redundancy
- Bird-strike resistance
- Crashworthiness to latest standards.

CORE AVIONICS

Displays & Cockpit Interface

- NVG Compatible Cockpit Display System with four 8" x 10" colour Active Matrix Liquid Crystal Displays
- Optional additional 5th Display in Cockpit
- Electronic Standby Instrument System (ESIS)

Flight Control & Management

- 4-axis Digital Automatic Flight Control System

Navigation System

- Dual VOR, DME, GPS
- Optional ADF, Military GPS, IRS, TACAN

Identification Systems

- Optional Automatic Identification Systems (AIS)
- Optional IFF Transponder

Communication system

- Dual VHF and Intercom System
- Optional VHF/UHF Tactical Radios

Monitoring & Recording

- Cockpit Voice & Flight Data Recorder
- Health & Usage Monitoring System.





Fully articulated Main and Tail Rotors

Secure communications including V/UHF/HF

NVG Compatible Glass Cockpit

Defensive Aids Suite including RWR, LWR, MWR

Nose-mounted surveillance, search and weather radar

Electro-Optical/Infra-Red (EO/IR) Camera with Laser Range Finder and Illuminator

Searchlight

Cargo Hook

Bubble cabin windows or sliding windows



CABIN SPACE AND ACCESSIBILITY

Designed with inherent multi-role capability and flexibility of operation, the AW139M's largest in class unobstructed cabin provides space for the rapid transport of fully equipped troops and mission equipment in support of high-tempo operations. Large sliding doors on both sides of the helicopter and low floor height enable rapid ingress and egress of troops, ease of loading and unloading of cargo and equipment and rapid loading of NATO stretchers on ground. Fast roping operations enable troop insertion from hover, whilst allowing simultaneous threat suppression from window mounted crew-served weapons.

The cabin space enables the rapid installation of mission and role equipment including a fully integrated mission console. Additional mission equipment, such as stretchers can be stowed in the large storage area behind the cabin. Optionally accessible from the cabin in flight, it keeps cabin space free for operations.

The cabin can be rapidly reconfigured from Troop Transport and Cargo Re-Supply into more demanding configurations, including CASEVAC/MEDEVAC, SAR/CSAR, Special Forces and C2/ISR.

MISSION & ROLE EQUIPMENT

A wide range of mission and role equipment can be installed on the AW139M, further enhancing its operational effectiveness. This includes, but is not limited to the following:

ROLE EQUIPMENT

- Inlet Barrier Filters
- Crashworthy Self-Sealing Fuel Tanks
- Ballistic Protection (Cockpit & Cabin Floor, Cockpit Doors)
- IR Suppressor
- Wire Strike Protection System
- 360° Coverage Obstacle Proximity LiDAR System (OPLS)
- Searchlight (NVG Compatible)
- IR Formation Lights
- Overwater Kit (Emergency Flotation & Life Rafts)
- Rappelling Hooks (LH & RH)
- Fast Rope Attachments (RH & LH)
- Cargo Hook-Single or Dual HEC Type
- External Rescue Hoist-Single or Dual Type
- Folding Crashworthy Troop Seats
- Medical and Casualty Evacuation System
- Internal Auxiliary Fuel Tank
- Ice Protection Systems.

AVIONIC EQUIPMENT

- Enhanced SAR modes and Hover mode
- Military GPS, TACAN, IRS
- Military Communications including Secure Radios, Combat Tactical Radios, Satellite Tracking, Personnel Locator System, Video Downlink, Optional Data Link 16
- IFF transponder up to Mode 5
- Defensive Aids Suite (DAS) including EWP & TWD, Missile Warning Receiver (MWR)-5 sensors, Chaffs and Flares Dispensing System, Laser Warning Receiver (LWR)
- Electro-Optical/Infra-Red (EO/IR) Camera with Laser Range Finder and Illuminator
- Mission Console in cabin providing Tactical Awareness, Link Management and C2/ISR
- Digital Maps and Tactical Data Display
- Weather/Search Radar.

WEAPON SYSTEMS

- Internal-mounted 7.62 mm (window pintle) or 12.7 mm (door pintle) Machine Gun Installation.





AW139M CHARACTERISTICS

WEIGHT (MTOW)

Max Take Off Weight	6,400 kg	(14,110 lb)
Increased Gross Weight	6,800 kg	(14,991 lb)
Increased Gross Weight ⁽¹⁾	7,000 kg	(15,432 lb)

PROPULSION

Powerplant: 2 x Pratt & Whitney Canada PT6C-67C engines with FADEC

ENGINE RATINGS

Take-Off Power (5 mins)	2 x 1,252 kW	(2 x 1,679 shp)
Max Continuous Power	2 x 1,142 kW	(2 x 1,531 shp)

CAPACITY

Crew	1 to 2
Passengers	Up to 10 heavily/15 lightly equipped troops

DIMENSIONS

Overall Length ⁽²⁾	16.66 m	(54 ft 08 in)
Overall Height ⁽²⁾	4.98 m	(16 ft 04 in)
Rotor Diameter	13.80 m	(45 ft 03 in)

PERFORMANCE

VNE (ISA, SL)	309 km/h	(167 kt)
Max Cruise Speed (@5,000 FT, ISA, MGW, MCP)	306 km/h	(165 kt)
HIGE (ISA, MGW, TOP)	4,672 m	(15,327 ft)
HOGE (ISA, MGW, TOP)	2,476 m	(8,123 ft)
Maximum Range (@5,000 FT, ISA, MGW) ⁽³⁾	1,187 km	(641 NM)
Maximum Endurance (@5,000 FT, ISA, MGW) ⁽³⁾		5 h 38 min

⁽¹⁾ Available as a Kit

⁽²⁾ Turning

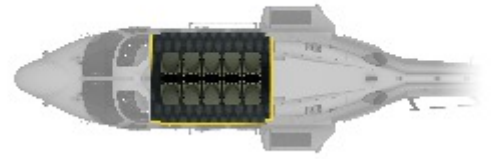
⁽³⁾ With auxiliary fuel tank-No reserve



MULTI-ROLE CAPABILITY

TROOP TRANSPORT

The rapidly reconfigurable cabin provides crashworthy seating for up to 15 lightly equipped troops or 10 fully equipped troops in fore/aft and sideways facing layouts. The fast roping system enables simultaneous egress of two troops per side. Ballistic protection can be provided.



Typical Configuration

CARGO RE-SUPPLY/EXTERNAL LIFT

The large 8 m³ constant section cabin, flat floor and large 1.6 m wide cabin doors enable rapid loading and unloading of cargo and equipment. Coupled with a 2,200 kg cargo hook capability, with “in cockpit” monitoring the AW139M has the capacity to conduct effective resupply and lift operations.



Typical Cargo Configuration

CASEVAC/MEDEVAC

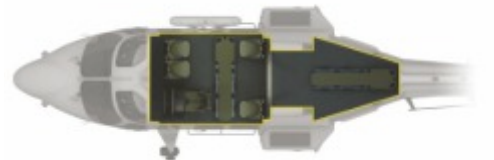
The rapidly reconfigurable cabin enables designation for medical operations. In addition to 4 forward facing seats, 2 stretchers can be mounted transversally on the flat floor to enable full body access to casualties.



Typical CASEVAC/MEDEVAC Configuration

SAR/CSAR

The cabin can be rapidly reconfigured with seats for hoist operator and medic providing unobstructed space for hoist operations and injured recovery through the large cabin door. In-flight access to the rear stowage bay enables SAR mission equipment to be stowed outside of the cabin area. Optional mission consoles enhance situational awareness and search capabilities to further increase mission effectiveness. Threat suppression can be provided by crew-served weapons in the forward windows on dedicated cabin layout.



Typical SAR/CSAR Configuration

COMMAND & CONTROL (C2), COMMUNICATIONS, COMPUTERS (C4), INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE (ISR)

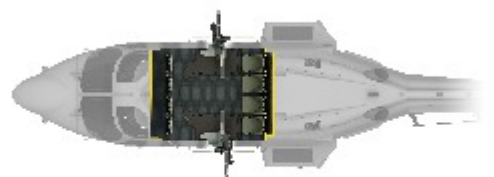
Battlefield capabilities from C2 to C4ISR are provided depending on the mission by means of a dedicated console in the cabin integrated with the AW139M mission management systems and sensors. This enables the AW139M to collect, produce and disseminate time critical C2 and ISR information to allied forces.



Typical Command & Control Configuration

CLOSE AIR SUPPORT

The AW139M can be configured in order to provide Close Air Support capabilities, guaranteeing combat effectiveness in hostile environments. Cabin-mounted crew-served machine gun ensure efficient threat suppression, enhancing air-to-air and air-to-ground mission success.



Typical Close Air Support Configuration

SURVIVABILITY & CRASHWORTHINESS

Leveraging the major contributions to battlefield survivability made by Doctrine and Training, Intelligence, Mission-Planning and Re-Planning, the AW139M will survive in the modern battlefield. Platform and mission systems capabilities enable the AW139M to avoid threats, detection by threats and hits with the installation of a dedicated Defensive Aids Suite (DAS), including Missile, Laser and Radar Warning Receivers.

AW139M PLATFORM & SYSTEM CAPABILITIES	Avoid Threat	Avoid Detection	Avoid Acquisition	Avoid Hit
PLATFORM CAPABILITIES				
Range/Endurance (for routing/re-routing)	✓	✓	✓	
Agility/Performance for NOE flight (terrain masking)	✓	✓	✓	✓
Power margins for Hot & High/Performance	✓	✓	✓	✓
De-Icing/Anti-Icing for Winter Operations	✓	✓	✓	
Low Signatures (Visual, Acoustic and IR)	✓	✓	✓	
SYSTEM CAPABILITIES				
Day Night All Environment Operations	✓	✓	✓	
Off-Board Mission Planning	✓	✓	✓	
Situational Awareness: Digital Map	✓	✓	✓	
Threat warning and geo-location: Radar/Laser/EW	✓	✓	✓	
Comprehensive Voice, Video and Data Comms	✓	✓	✓	
On-Board Mission Re-Planning	✓	✓	✓	
Synthetic Vision/Terrain Avoidance Systems	✓	✓	✓	
Sensors/Weapons capability-stand off from threats		✓	✓	
Counter threat (Chaff & Flare etc.)			✓	✓
Threat Suppression			✓	✓

AW139M can survive small arms fire due to its inherent ballistic tolerance provided by damage tolerant/fail-safe rotor blades, airframe structure and components, run-dry main gearbox, twin engines with fire suppression and turbine burst containment, dual electrical and hydraulic systems, ballistic tolerant/self-sealing fuel tanks. In the unlikely event of a crash, the AW139M provides crashworthy structures and seats, and crashworthy fuel tanks to minimize post-crash fire, flotation equipment for emergency ditching, and rapid post-crash/post-ditching egress capability.



CUSTOMER SERVICES SOLUTIONS

Leonardo Helicopters' Customer Support & Services mission is to ensure that our customers operate safely, efficiently, and with maximum mission success.

We offer a comprehensive suite of support services designed to evolve alongside customer needs. These solutions can be provided individually or combined into integrated support packages, where Leonardo assumes responsibility for key performance outcomes-from material logistics guarantees to full helicopter availability. With this performance-driven approach, we go beyond traditional support models, aiming to maximize helicopter operational availability while reducing through-life costs.

The range of services and solutions includes:

- **Spare & Repairs:** Leonardo Helicopters is accountable for material and logistics provision of spares, repairs and overhauls services;
- **Maintenance:** in support of Customers, Leonardo Helicopters is able to provide Line and Base maintenance both at Customer facilities, through company-owned and third party organisations benefitting from an extensive network of service and repair centres worldwide;
- **Technical Services:** Leonardo Helicopters can provide an extensive range of technical capabilities based on the latest standards for interactive electronic technical publications, technical query resolution, repair design and modification assistance;
- **Advanced Services:** Leonardo Helicopters, relying on flight data analysis and mission support as well as maintenance predictability, can offer a broad of digital services to support its fleet worldwide. These includes Health & Usage Monitoring System (HUMS) analysis, flight planning tools (SkyFlight), customized logistics packages, upgrades from traditional paper-based systems to a modern web-based approach through online company portals, facilitating direct access to company information;
- **Fleet Operations Centres:** located across the globe, available 24/7, to promptly help Customers to resolve technical and logistic issues and in order to get back to flight.



Repair Services

TRAINING SOLUTIONS

At Leonardo Helicopters, training services are designed to support safety, efficiency, and operational readiness for operators worldwide, with a strong emphasis on practical, effective learning for every crew member involved in helicopter operations.

Our team includes over 250 highly qualified instructors, including both flying and technical. This ensures a solid combination of theoretical knowledge and real operational experience.

A Network of 12 Training Academies and Satellites allows customers to access consistent and reliable training across different regions, bringing us closer to them. Training programs are flexible and tailored to specific needs, covering both theoretical and practical courses for aircrew, rear crew, and ground crew. From ab-initio to recurrent training, each stage of professional development is supported. Mission-specific programs are also available, enabling crews to maximize the capabilities of their aircraft and perform effectively in complex scenarios.

Advanced simulation plays a central role, with a wide range of training devices supporting all phases of learning, from basic skills to full mission readiness. These services can be delivered at our Training Academies, through partners, or directly at customer locations to ensure continuity and efficiency.

Ongoing investment in innovative technologies, including Virtual Reality-based simulation devices, contributes to more immersive, cost-effective training solutions while enhancing safety and overall training quality.



Leonardo S.p.A.
Registered Head Office:
Piazza Monte Grappa, 4
00195 Rome - Italy
T +39 06 324731

Leonardo Helicopters
Head Office: Via Giovanni Agusta, 520
21017 Cascina Costa di Samarate - Italy
T +39 0331 229111

This publication is issued to provide outline information only and is supplied without liability for errors or omissions. No part of it may be reproduced or used unless authorised in writing. We reserve the right to modify or revise all or part of this document without notice.

AW139M-Mk-0520/0426
2026 © Leonardo S.p.A.



[leonardo.com](https://www.leonardo.com)

[leonardo.com](https://www.leonardo.com)