

AgustaWestland AW139
Law Enforcement





AW139

SIMPLY NO RIVALS

ALL-SEEING EYE IN THE SKY

The AW139 has been developed to exceed the rigorous standards of federal, state and local airborne law enforcement authorities. With the flexibility needed to perform a wide range of law enforcement roles, the AW139 is particularly suited to area patrol, officer transport, re-supply, command and control, fire support missions, medical evacuation, and search and rescue operations.

Setting new standards for capability, speed, range, versatility and comfort, the AW139, a member of the AgustaWestland Family of helicopters, simply outperforms every other medium twin-engine helicopter.

The state-of-the-art Honeywell Primus Epic® avionics system minimises pilot workload allowing the crew to concentrate on mission objectives.





SUPERIOR PERFORMANCE IN ALL CONDITIONS

The AW139 delivers best-in-class performance with a cruise speed of 165 knots / 306 km/h, a range in excess of 500 nm / 927 km, endurance of 5 hours, and superior hover performance.

The AW139's exceptional OEI capability brings added confidence during rapid deployment of personnel.

With its power reserve, the AW139 assures Category "A" (Class 1) superior performance from a helipad (elevated or at ground level) at maximum take-off weight. Excellent performance is granted for operations worldwide, even in extreme hot-and-high environments or harsh conditions.

SAFETY IS BUILT-IN

Engineered to the highest safety standards, the AW139 is constructed with energy-absorbing landing gear, fuselage and seats, which are all designed to meet the rigorous JAR / FAR 29 standards. In addition, the cockpit features excellent pilot visibility and redundant flight systems for reduced workload. High main and tail-rotor ground clearance provides added safety for law enforcement and maintenance teams whilst on the ground.

NEW TECHNOLOGY FOR OPTIMUM CAPABILITY

State-of-the-art Honeywell Primus Epic® avionics and large displays work together with the 4-axis digital autopilot with auto hover and Full Authority Digital Engine Control (FADEC) to minimise pilot workload. The AW139's ergonomic design, excellent handling characteristics and low vibration levels further reduce pilot fatigue and enhance crew comfort.

MORE ROOM TO WORK

With the largest passenger cabin in its class the AW139 delivers abundant working room and maximum mission flexibility. The cabin benefits from a flat floor and large sliding doors on each side for easy access.

With 8 m³ / 283 ft³ of cabin space the AW139 can seat up to 15 passengers or 8 deployable law enforcement officers and 2 armed crew members for aircraft protection. An additional 3.4 m³ / 120 ft³ baggage compartment space is accessible from both inside the passenger compartment and from outside of the helicopter.

Cabin length	2.70 m	8 ft 10 in
Cabin width	2.10 m	6 ft 11 in
Cabin height	1.42 m	4 ft 8 in



TOTAL LAW ENFORCEMENT CAPABILITY

- Border guard roles easily conducted
- Easily adapted for disaster relief, humanitarian and community support
- Maximised all weather operation
- Advanced role equipment to cater for all situations
- Total cabin versatility in layouts and stowage
- Multi-role capability for SAR / EMS reconfiguration
- Ease of access and egress
- High useful load and high speed for mission effectiveness
- Performance for operations in confined / congested areas
- Low Noise Signature, >5db below ICAO requirements making it a “city friendly” helicopter
- Low operating costs - modern equipment optimises TBO and retirement lives
- Next generation safety - design, construction, operability and crashworthiness



WORLDWIDE SUPPORT

The AW139 benefits from an extensive global network of customer representatives, technicians and engineers, complemented by repair, overhaul and spares facilities around the world. Level-D full flight simulators are already in service worldwide to maximise pilot training and support safe operations.



AW139 CHARACTERISTICS

Dimensions

Overall length ⁽¹⁾	16.66 m	54 ft 8 in
Overall height ⁽¹⁾	4.98 m	16 ft 4 in
Rotor diameter	13.8 m	45 ft 3 in

Propulsion

Powerplant	⁽²⁾ Pratt & Whitney PT6C-67C Turboshfts with FADEC	
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Engine Rating

AEO Take off power	2 x 1,252 kW	2 x 1,679 shp
OEI 2.5 min contingency power 1,396 kW	1,872 shp	

Weight (MTOW)

Max ramp weight	6,450 kg	14,219 lb
Internal load ⁽²⁾	6,400 kg	14,110 lb
External Load	6,800 kg	14,991 lb
Typical LE equipped weight	4,200 kg	9,259 lb

Capacity

Crew	1-2	
Passenger seating	Up to 15, or 8 deployable law enforcement officers and 2 armed aircraft crew members for aircraft protection	
Stretchers	4 stretchers (up to 5 attendants)	
Baggage compartment	3.4 m ³	120 ft ³

⁽¹⁾ Rotors turning

⁽²⁾ An optional MTOW (internal) of 6,800 kg (14,991 lb) is available as kit

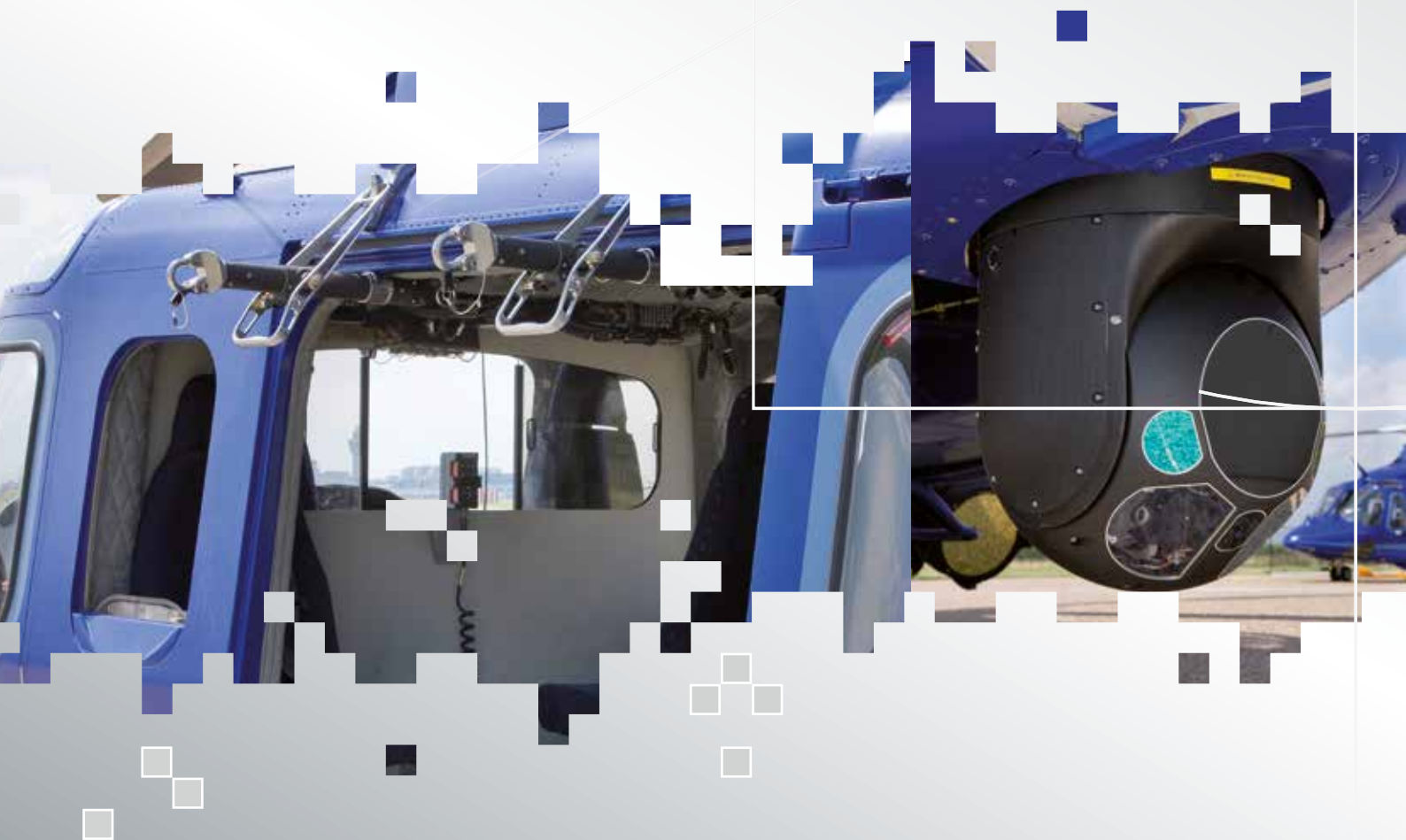
Performance (ISA, S.L., MGW)

VNE (IAS)	310 km/h	167 kt
Cruise Speed	306 km/h	165 kt
Rate of Climb	10.9 m/s	2,140 ft/min
HOGE	2,478 m	8,130 ft
Service Ceiling	6,096 m	20,000 ft
OEI service ceiling	3,536 m	11,600 ft
VTOL cat. A	945 m	3,100 ft
Maximum range ⁽³⁾	1,061 km	573 nm
Maximum endurance ⁽³⁾	5 h 13 min	

⁽³⁾ No reserve, with auxiliary fuel



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