

Mission

The “force multiplier” in law enforcement

TAKING LAW ENFORCEMENT TO NEW HEIGHTS

Police dub them “force multipliers.” Why?

It’s simple: Three crewmembers in a helicopter can perform the work of dozens on the ground – more safely and cost effectively.

Helicopters flying routine patrols over U.S. cities average two felony arrests per day; arrests that may not have been made otherwise.

When crowds or demonstrations grow unruly, helicopters are able to deploy law enforcement resources discreetly to avoid inciting outbreaks that otherwise may put ground personnel at danger.

Helicopters routinely are used in high-speed car chases to avoid potential accident risks to police vehicles and officers on the ground, while an airborne search is 20 times faster than a mission performed on foot.

For the full range of airborne law enforcement missions – including those performed with city, state or highway police; carried out by customs, border patrol, and coast guard units; and implemented by drug enforcement, SWAT personnel or search teams – Airbus Helicopters provide the performance, capability and special equipment to get the job done – no matter how complex the task.

Airbus Helicopters’ 56-percent market share of the total law enforcement fleet over the last 10 years in the segment confirms that the company’s helicopter range brings the right capabilities for missions specific to the law enforcement community.





Whatever the mission, Airbus Helicopters helicopters have what it takes

Airbus Helicopters' product line encompasses a wide choice of models – from the 1.7-ton single-engine EC120 with five seats to the 11-ton, 24-seat, twin-engine EC225. To meet law enforcement agencies' most stringent requirements, Airbus Helicopters rotorcraft incorporate the most up-to-date flight technologies, and can be fitted with a vast array of certified cutting-edge surveillance and crime-fighting equipment to carry out any law enforcement mission.



Surveillance patrols

Control and observe from above with a personalized eye-in-the-sky.

Command and control

Transmit voice and images from the helicopter’s sensors to personnel on the ground, using microwave digital downlinks.

Anti-terrorism

Rapidly and safely deploy armed teams or SWAT units.

Drug enforcement

Detect, intercept and control perpetrators on the ground and offshore.

Border patrol

Guard and control large zones across strategic areas.

Aerial support

By using moving maps linked with GPS data, the helicopter team can safely follow high-speed chases as well as enabling ground units to position themselves ahead of the action for a rapid and safe intervention.

**Search and rescue**

Find missing persons efficiently by covering the largest area possible, using infrared sensors in both day and night conditions

Firefighting

Make highly effective dispersals of water and fire retardants, using fixed and removable deployment systems.

**Mission-efficient helicopters**

- **Quick-start capability** with automatic start procedures.
- **Airborne imaging** technologies and thermal-imaging cameras optimize reconnaissance mission results and significantly reduce the number – and cost – of additional personnel required.
- **Risk minimization** for law enforcement resources on the ground (in hostile terrain and during chases – particularly in vehicle pursuits).
- **Reduction of required personnel** with the same, or better, results during search and rescue missions, surveillance, etc.)
- **Discretion** Every model in Airbus Helicopters’ product line is substantially quieter than strict ICAO limit requirements.
- **Time-saving** in reaching crime or accident scenes, which often is a decisive factor in success of the mission.

These attributes, and others, quickly offset a helicopter’s purchase price and operational costs.

Airbus Helicopters' mission-oriented helicopters get the job done

With years of experience in providing dedicated, fully-equipped helicopters to law enforcement agencies around the world, Airbus Helicopters knows what its clients need most.





Performance and technology

The highest levels of performance in their class provide a combination of proven engineering solutions and cutting-edge technologies. Excellent payload lift capability guarantees optimum mission delivery, including police crewmembers and equipment.

Fast cruise speeds

Reaching a zone of operations in the minimum of time places law enforcement resources over the scene well before ground units arrive.

Excellent payload lift capability

Calculated for optimum mission delivery, including police crewmembers and equipment, without increasing the size or cost of the aircraft.

Long endurance

Ensures that any Airbus Helicopters rotorcraft can cover the necessary distance and remain airborne for as long as ground units need airborne support.

Cost-effectiveness

- Proven and reliable technology
- Best maintenance cost
- Mission versatility



Operational comfort

- Low vibration levels
- Excellent visibility
- Low crew workload
- Easy access and operability in the cabin

Safety

All Airbus Helicopters rotorcraft employ the very latest technologies to ensure optimal safety.

Multi-function display

Reduces pilot workload therefore enabling full concentration on the mission ahead.

Composite materials

A crash-resistant aircraft structure, corrosion-proof rotor blades with unlimited lifespans.

Energy-absorbing seats

Absorbs the impact of hard landings, thereby reducing the risk of injury.

Automated engine controls

Full Authority Digital Engine Control (FADEC) ensures optimal engine functionality during all phases of flight.

Enclosed Fenestron® tail rotor

Guarantees security for third parties during landing or parking maneuvers. The Fenestron also contributes to the helicopter's reduced sound levels, allows higher speeds, lower fuel consumption and protects the rotor against foreign object damage (FOD) during operations.

The lightweight single-engine category

Lean and efficient

EC120 / AS350 / EC130

Airbus Helicopters' lightweight single-engine helicopter family is well adapted to multi-role law enforcement missions. The rotorcraft deliver excellent operational effectiveness while remaining highly cost efficient.





The right equipment and systems

Airbus Helicopters' lightweight helicopter product line is designed to be fitted with all necessary equipment for surveillance and law enforcement operations: searchlights, forward-looking infrared (FLIR) sensors, video downlink, data downlink, hoist and rappelling systems (on the AS350), loudspeakers, etc.

The spacious, unobstructed cabin provides ample area to integrate a full range of hardware, while retaining exceptional visibility.



Engine Reliability

The single-engine Airbus Helicopters rotorcraft family features mission-proven Turbomeca turbine engines. Well known for their reliability and power, these engines offer uncompromised dependability and are a vital component to overall safety and mission effectiveness.

As a result Airbus Helicopters' lightweight rotorcraft is ready in no time for dispatch, with a quick and automatic engine start-up sequence, excellent performance and high availability rate obtained through an easy and affordable maintenance concept.

Simplified Maintenance

Technicians can perform many of the regular maintenance tasks without the need for specialized tools. This is one more example of how Airbus Helicopters designs its rotorcraft for fast and cost-effective support.

The lightweight twin-engine category

Ready for the full spectrum of missions

AS355 / EC135 / EC145

The compact size of Airbus Helicopters' lightweight twin-engine rotorcraft allow them to land in confined areas. Mission flexibility, low sound levels, reduced maintenance and operational costs, along with higher availability rates, are among the many reasons why leading law enforcement customers choose these aircraft for their daily operations. The enhanced EC145 T2 version provides the best hot and high performance in its class, combined with most modern Fenestron shrouded tail rotor configuration for additional safety and a lower environmental footprint.





Cost-effective and time-effective operations

Low operating costs are guaranteed by Airbus Helicopters’ design simplicity, the easy access to main components, use of composite materials and the demonstrated technological reliability of its aircraft. The Time Between Overhauls (TBOs) are the highest in the industry, ensuring Airbus Helicopters rotorcraft have exceptional availability rates.

Large Cabin Volume

Cabin volume and accessibility are essential factors in facilitating the transportation of heavy and large mission equipment and systems. Another advantage is the cabin’s level floor, which reduces unusable space.

Easy Access

Wide door openings and the capability to load both from the sides and the rear (on the EC135 and EC145) facilitate and accelerate the operational pace, thereby shortening deployment times. The interior open space allows for better communications between crewmembers in both the cockpit and the cabin.

The right equipment and system suites

Airbus Helicopters’ lightweight twin-engine helicopters are designed to accept all necessary equipment for a diverse range of requirements, including searchlights, sensors, video and data downlink, hoist and rappelling systems, and other hardware. With the large unobstructed cabins that are characteristic of Airbus Helicopters rotorcraft crewmembers are afforded excellent visibility aloft and on the ground, along with ample room inside.



EC145 T2
instrument panel

The medium twin-engine category

Built to handle heavy-duty missions

AS365 / EC155 / EC175

The rapid flight speeds, extended endurance and payload capabilities of Airbus Helicopters’ Dauphin family – now joined by the new-generation EC175 – make these rotorcraft ideal tools for demanding law enforcement operations that range from patrol, surveillance and SWAT team airlift to homeland security duties.



Low vibration levels

The very low vibration levels of Airbus Helicopters’ medium twin-engine aircraft provide optimal conditions for the installation and use of sensors and other systems required for police missions. The more comfortable ride ensures air crews are at their best even during the longest-duration flights for surveillance, patrol and other duties.

Rapid Deployment

The effectiveness and success of today’s airborne mission requirements are centered around the necessity for rapid deployment.

The design of Airbus Helicopters’ medium twin-engine helicopters puts the emphasis on reliability and the power/weight ratios that are essential to mission success, while retaining excellent flight handling characteristics and maneuverability that give law enforcement agencies the opportunity to operate in even the most confined areas.



AS365 / EC155

The Dauphin family benefits from years of operational experience, and is designed to ensure low maintenance costs while providing the highest availability rates.

Unmatched visibility and discrete sound levels make the Dauphin family a perfect fit for effective surveillance operations. Its state-of-the-art glass cockpit is compatible with night-vision goggles, ensuring mission readiness day and night.



EC175

Incorporating the latest in avionics, flight controls and system redundancy, the EC175 offers an optimum medium-weight twin-engine solution for the most challenging deployments and operating conditions.

The EC175’s large cabin is tailored for installation of operator consoles, and provides the volume for full teams and their equipment to be accommodated on long-range missions. Large doors facilitate ingress/egress, and fast-rope can be performed from anchor-points on both sides of the fuselage.



Law enforcement equipment

Depending on their call of duty, law enforcement agencies' requirements will vary. Airbus Helicopters has made the commitment to integrate a wide range of equipment to ensure maximum flexibility. All equipment options can be delivered pre-installed.



EOS

Quality day and low-light video camera with 32X zoom, mounted alongside infrared thermal imaging system with 16X zoom in a gyro-stabilized turret. Both modes can be recorded or transmitted by microwave downlink.



Upper and lower cable cutters



External hoist



Console

Fast-rope rappelling system



Emergency medical kit



Tools of the trade



Searchlights

High candlepower searchlights turn night into day, enabling airborne law enforcement personnel to follow suspects and vehicles, illuminate crime scenes and provide support at disaster scenes. All Airbus Helicopters rotorcraft can be fitted with searchlights, which can be controlled individually or tandem with cameras/sensors.

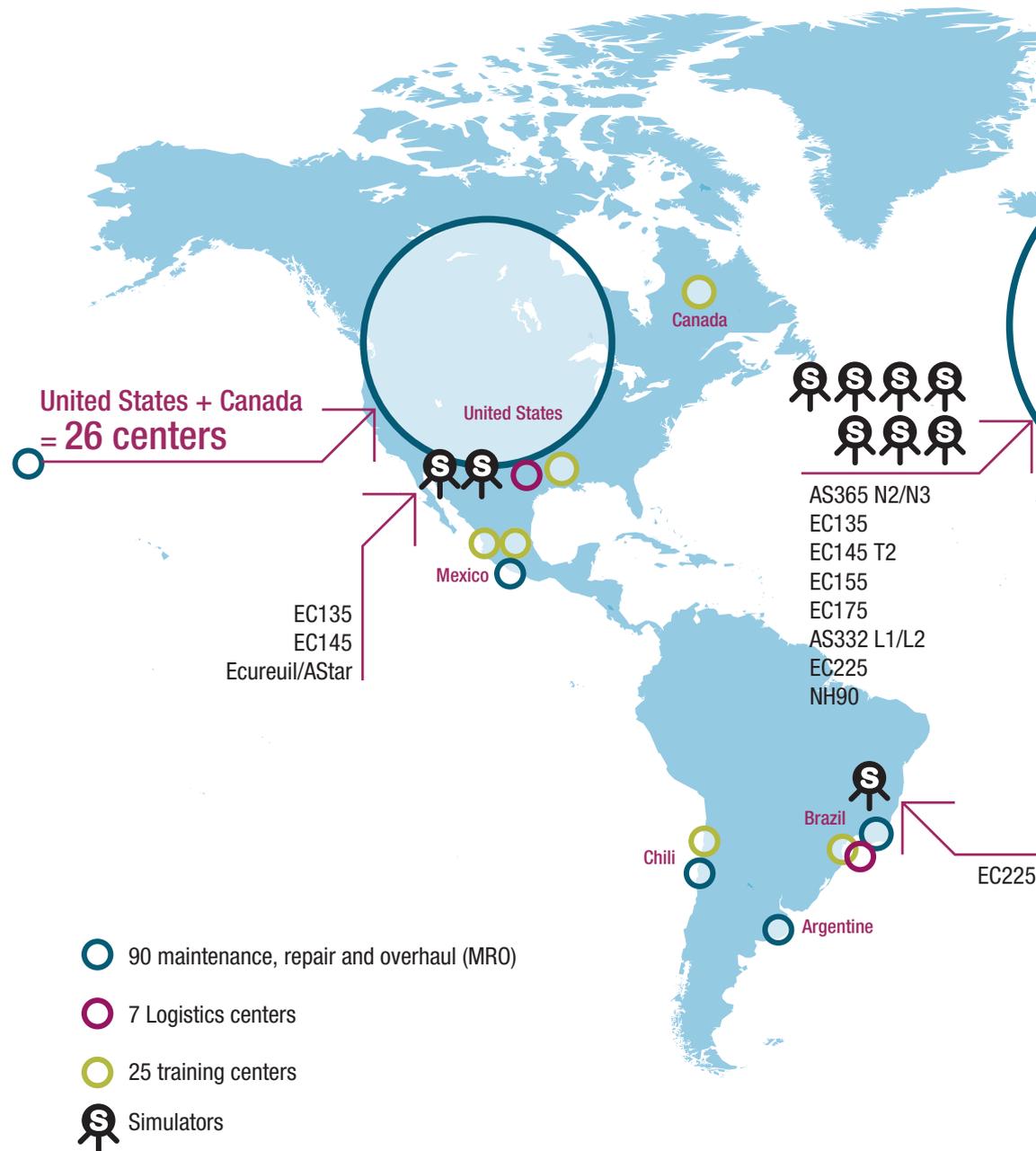


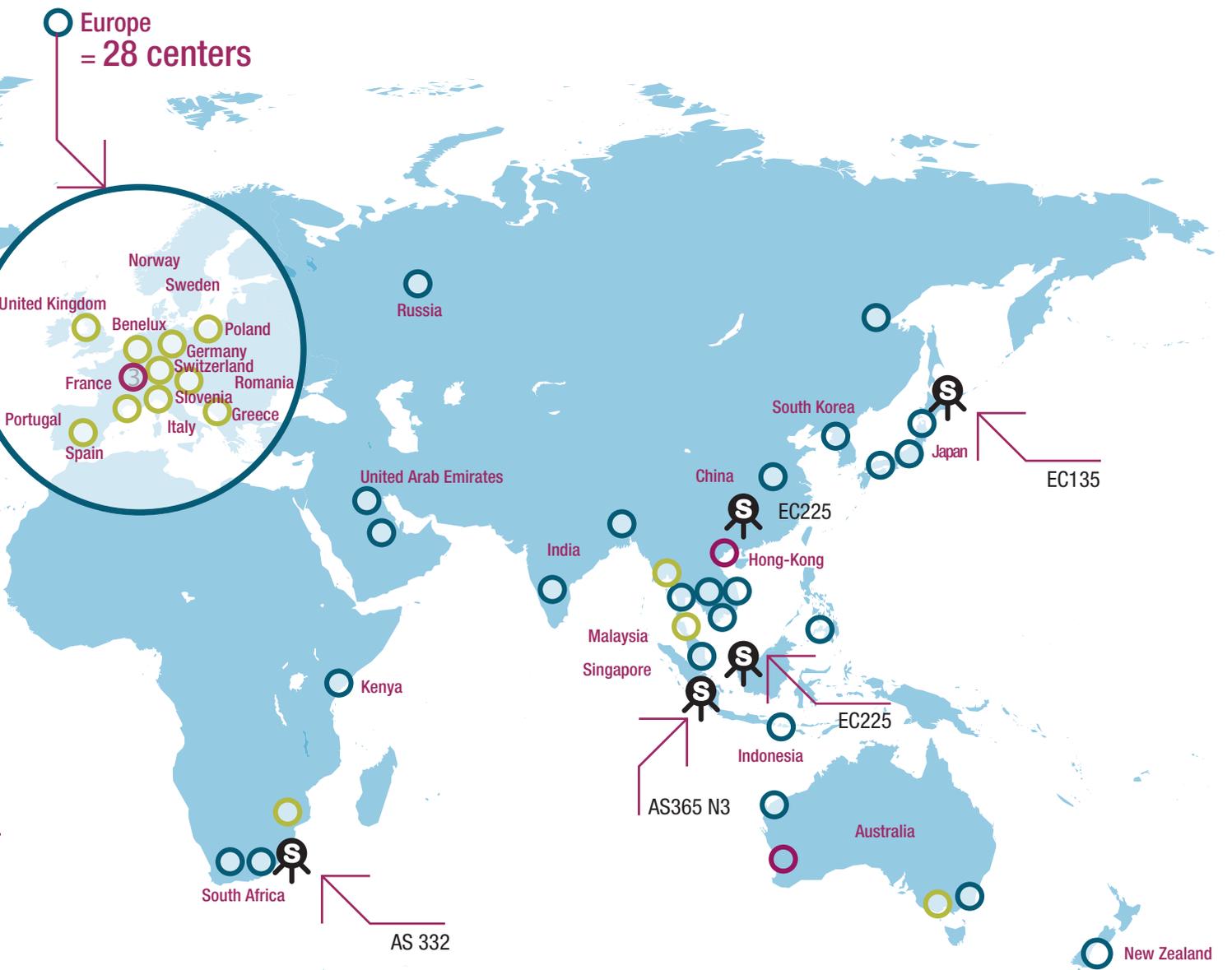
Loudspeakers

The helicopter's loudspeakers – known as the sky shout – play an important psychological role during search and rescue missions. They enable contact to be made with personnel on the ground, to instruct suspects during surrender, or provide courage to survivors until rescuers can safely reach them. Airbus Helicopters works with the major manufacturers of such equipment, ensuring a full range of systems are available and qualified for integration.

Ready when duty calls: Airbus Helicopters' service center network is ready to support operators worldwide

This Airbus Helicopters network combines global reach with local presence – offering the full range of services, including spare parts supply; maintenance, repair and overhaul; training and technical assistance.





A flexible package of services, available anytime and anywhere

Airbus Helicopters’ worldwide distribution network is composed of modern, well-stocked automated logistics centers, international logistics platforms and local inventories around the globe – completed by 24/7 AOG (aircraft on ground) services to keep law enforcement agencies’ resources airborne when they are needed.





In-service introduction package

A new helicopter's arrival in the fleet often entails adjustments to the organization that supports it. Airbus Helicopters assists operators in setting up their activities and determining the best arrangements for logistics and technical assistance. The company offers adapted training and provides an initial set of consumables and necessary tools to ensure operations begin reliably and smoothly.

Field service

Proximity is the key word for Airbus Helicopters in bringing its competencies to customers. Through the Airbus Helicopters International Services organization, on-the-job training for technicians applies proven and advanced technologies, new maintenance operation modes and optimized maintenance scheduling.

Airbus Helicopters technical representatives support operators' teams in improving maintenance procedures and operations through optimized troubleshooting according to the manufacturer's documentation and standards.



A fast response makes all the difference in the field

Helicopters have to be ready to fly at a moment's notice. To answer the full range of law enforcement mission needs, Airbus Helicopters has introduced specific, customized programs for the optimal support of operations, which ensure maximum availability, minimum operating costs and full budget control. Such programs can involve up to full aircraft coverage and a very complete service package supplied by Airbus Helicopters.



Logistics field representative (LFR)

The LFR is an expertise service for management of the operator's supply chain, sharing Airbus Helicopters' expertise on logistics flow monitoring, forecasting, inventory management, repair, warranty, etc.

Airbus Helicopters' LFRs are the focal point of contact for a truly integrated logistics support.



Airbus Helicopters' main fixed hourly-rate programs

	Repair-by-the-hour (RBH)	Unscheduled-maintenance insurance-plan (UMIP)	Parts-by-the-hour (PBH)	Advanced PBH
Comprehensive coverage	•	•	•	•
Secured maintenance costs	•	•	•	•
TBO* provisioning	•		•	•
Repair process	•			
Standard exchange process		•	•	•
Budget control	•	•	•	•

*Time between overhaul

Law Enforcement equipment



	EC120 B	AS350 B2	AS350 B3e	EC130 T2	AS355 NP	
Maximum range (at MTOW)	710 km / 383 NM	666 km / 360 NM	651 km / 351 NM	616 km / 332 NM	731 km / 395 NM	
Useful load	718 kg / 1,583 lb	1,028 kg / 2,266 lb	1,000 kg / 2,204 lb	1,067 kg / 2,352 lb	1,097 kg / 2,447 lb	
Capacity	 4	 5	 5	 6	 5	
MTOW	1,715 kg / 3,781 lb	2,250 kg / 4,960 lb	2,250 kg / 4,960 lb	2,500 kg / 5,512 lb	2,600 kg / 5,732 lb	
Fast cruise speed	223 km/h / 120 kts	246 km/h / 133 kts	258 km/h / 140 kts	236 km/h / 127 kts	222 km/h / 120 kts	
Standard fuel tanks	321 kg / 707 lb	426 kg / 939 lb	426 kg / 939 lb	426 kg / 939 lb	577 kg / 1,272 lb	
Endurance (at MTOW)	4 h 19 min	4 h 24 min	4 h 28 min	4 h 00 min	4 h 35 min	
IFR/VFR/ day and night	Yes	Yes	Yes	Yes	Yes	

Law enforcement mission systems

FLIR	STC	STC	STC	STC	STC	
Searchlight	STC	Available	Available	STC	Available	
External loud speaker	STC	Available	Available	STC	Available	
Hoist		Available	Available		Available	
Rappelling installation		Available	Available		Available	
Cargo sling/swing	Available	Available	Available	Available	Available	
Wire strike protection	Available	Available	Available	Available	Available	
NVG	Available	Available	Available	Available		
Tactical radio	STC	STC	STC	STC	STC	
Moving map	STC	STC	STC	STC	STC	
Search radar						
HF		Available	Available		Available	
Downlink						
Operator console	STC	Available	Available		Available	

STC: Supplemental type certificates

FP: Fixed part

Glossary

AOG: Aircraft on ground

FADEC: Full authority digital engine control

FLIR: Forward-looking infrared

GPS: Global Positioning System

HF: High frequency

IFR: Instrument Flight Rules

LFR: Logistics Field Representative

MRO: Maintenance, repair and overhaul

MTOW: Maximum takeoff weight

NVG: Night vision goggles

SWAT: Special weapons and tactics

SAR: Search and rescue

TBO: Time between overhaul





The world's leading helicopter manufacturer



Airbus Helicopters continually develops new technologies enabling its helicopters to fly faster, farther and higher— all at a lower cost. We not only meet the current demands of our customers, but we are also paving the way for aircraft that meet tomorrow's needs, while continuously improving their safety, comfort and environmental friendliness.

To date, Airbus Helicopters has delivered more than 17,500 helicopters around the world. With some 8,100 civil and parapublic helicopters flying in 149 countries, Airbus Helicopters supplies nearly one-third of the global turbine-engine rotorcraft fleet. This international scope is only natural for a group with the largest and most up-to-date range of helicopters on the market. From single and twin-engine light and medium helicopters to eleven-ton-class helicopters, Airbus Helicopters has the right aircraft to handle any and all of your civil missions.



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Printed in France by Hemisud

Printed on PEFC certified paper originating from sustainable forests.

Law enforcement-BR-1014E