

R44[®] RAVEN II POLICE HELICOPTER



ROBINSON HELICOPTER COMPANY

R44[®] RAVEN II

POLICE HELICOPTER

The **ROBINSON R44 RAVEN II POLICE HELICOPTER** combines proven R44 performance and reliability with state-of-the-art law enforcement technology. Lower acquisition costs, lower operating costs and a simplified maintenance schedule make the R44 a practical and affordable helicopter for large and small police departments.

The three-place R44 Police helicopter features an aerodynamic fuselage that optimizes airspeed and fuel economy enabling the helicopter to remain on station for up to two and one-half hours. An open cabin design provides unobstructed views allowing for better tactical support. A low tail-rotor tip speed, heavy duty muffler, and large cambered tail decrease flyover noise. The R44 Police Helicopter is turn-key ready, equipped with FAA-approved technologies that include an infrared imaging system, a fold-down monitor, a powerful searchlight, and a dual-audio controller.

RAPID RESPONSE

The high-performance Lycoming IO-540 fuel injected angle valve tuned-induction engine eliminates the need for carburetor heat. The 28-volt electrical system ensures good starting performance in hot or cold weather. Optimized installation of exterior-mounted equipment minimizes drag.

MAINTENANCE

Downtime is reduced with a simplified maintenance schedule that requires only oil changes between 100-hour inspections. Properly maintained, the R44 has an approved engine and airframe TBO (time between overhaul) of 2200 hours or 12 years. All life-limited components have approved service lives of at least 2200 hours or 12 years.

UPGRADES

- **AIR CONDITIONING** system features front and rear vents that circulate cool air throughout the cabin. The air conditioning system weighs 33 pounds and has a 12,000 Btu/hr cooling capacity.
- **PILOT'S AVIONICS CONSOLE** places a GPS unit in an easy-to-see and reach position, minimizing time spent looking down. The console can accommodate a GPS, GPS/COM, or GPS/NAV/COM.
- **LEATHER SEATS** available in tan, blue, and gray.

FEATURES

- **HYDRAULIC CONTROLS** reduce pilot workload and allow easier handling.
- **PISTOL-GRIP CYCLIC** incorporates two-position trigger switches for intercom and transmit. Pilot-side grip features buttons for convenient switching of COM frequencies.
- **CENTER-POSITIONED CYCLIC** with a teetering grip makes it easy to enter and exit the cockpit. Left-seat pedals and collective are removable.



POLICE EQUIPMENT

FACTORY-INSTALLED, GYRO-STABILIZED FLIR THERMAL IMAGING SYSTEM

FLIR Systems' Ultra 8000 Thermal Imaging Camera is a multi-sensor, compact, lightweight turret with excellent infrared sensitivity. The Ultra 8000 incorporates an infrared sensor with 10x optical zoom, and a daylight sensor with 18x optical zoom. The gimbal rotates 360 degrees and its stabilization technology enables crisp, detailed images. Optional auto tracker and extended range camera versions are available.

POWERFUL SEARCHLIGHT

A 500-watt xenon lamp emits a 15-20 million candlepower high-intensity, focusable beam. The light can be directed by either the hand controller or, as an option, by slaving it to the nose-mounted gimbal. The searchlight is positioned below the right rear seat to allow left-banked turns without the light beam being obstructed by the skid.

FOLD-DOWN MONITOR

A 10-inch, sunlight-visible color LCD screen easily switches between the FLIR and optional moving maps, and can be lowered when the system is not in use. Monitor mount accommodates various single/multi-band, Project 25 compliant FM police radios.

OPTIONAL EQUIPMENT

A variety of optional equipment is available including: five-point shoulder harness system (front seats); P/A speaker and siren (100 watt); microwave downlink capability; LoJack; moving map systems; and a selection of UHF, VHF, and 800 MHz police radios.



FLIR Ultra 8000 Thermal Imaging Camera.



Image captured by the FLIR Ultra 8000.

R44 Police Helicopter cockpit shown with monitor up and Technisonic FM Dual Transceiver TDFM-600 Series P25.

R44[®] RAVEN II POLICE HELICOPTER

SPECIFICATIONS

SPECIFICATION	RAVEN II POLICE HELICOPTER
Engine Type	Lycoming IO-540 fuel injected
Cylinders	6
Max Gross Weight	2500 lb
Approx Empty Weight (including oil, avionics and std police package)	1635 lb (742 kg)
Standard Fuel (29.5 gal)	177 lb
Auxiliary Fuel (17.0 gal)	102 lb
Passengers and Cargo with Full Fuel	586 lb
Cruise Speed	up to 115 kts (130 mph)
Max Range (no reserve)	approx 300 nm (350 sm)
Hover Ceiling IGE @ Gross Weight	8950 ft
Hover Ceiling OGE @ 2300 lb	7500 ft
Rate of Climb	over 1000 fpm
Max Operating Altitude	14,000 ft
Electrical System	28V

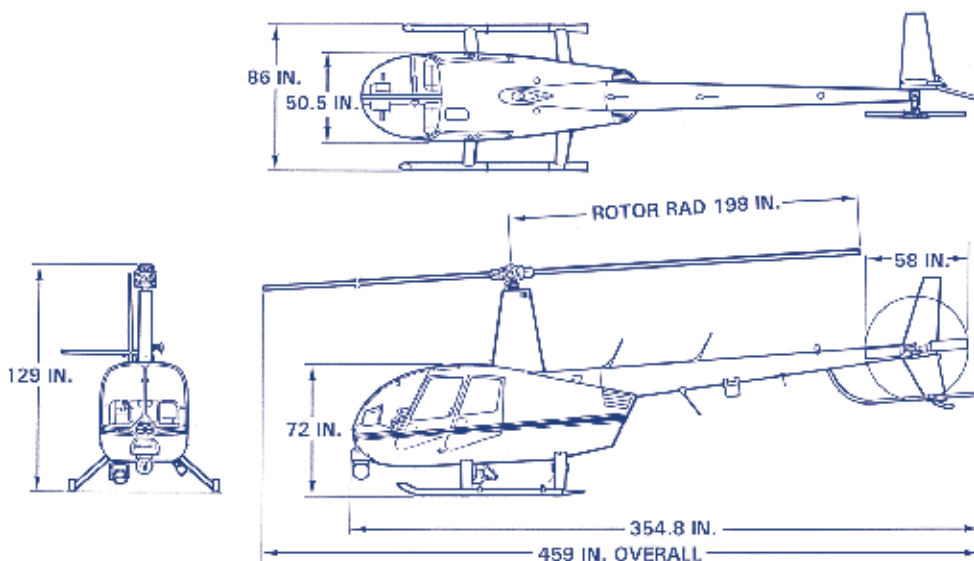
STANDARD INSTRUMENTS

- Airspeed indicator
- Altimeter (in-Hg)
- Rotor/engine dual tachometer
- Manifold pressure gage
- Vertical speed indicator
- Magnetic compass
- Cylinder head temperature gage
- Oil temperature & pressure gages
- Fuel quantity gages
- Ammeter
- Quartz clock
- Digital OAT gage/voltmeter
- Hourmeter

WARNING LIGHTS

- Alt low voltage
- Low fuel
- Low oil pressure
- Low rotor RPM (light and horn)
- Main gearbox temperature
- Main gearbox chip
- Tail gearbox chip
- Engine fire
- Rotor brake engaged
- Starter engaged
- Clutch actuator
- Governor off

DIMENSIONS



STANDARD EQUIPMENT

- LED anti-collision & navigation lights
- Dual HID landing lights
- Panel and map lights
- Auxiliary fuel system
- Cabin heater and defogger
- Carbon monoxide detector
- Door locks
- Floor and hand intercom switches
- Pilot-side adjustable pedals
- Tinted windows
- Belly hardpoint
- Oil filter and engine oil quick drain
- Ground handling wheels
- Rotor blade tie downs
- Windshield cover
- Robinson travel bag

ROBINSON HELICOPTER COMPANY

2901 Airport Drive • Torrance, CA • 90505 • USA
Phone: 310-539-0508 • Fax: 310-539-5198
www.robinsonheli.com