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Raybird vs Airbus H145



A Performance Comparison for Serious Surveillance Missions

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Technical Specifications

Side by Side

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 **Raybird**

Fixed-wing UAV · Long-endurance ISR

\$560_k

system price + VAT



FLIGHT PERFORMANCE

Endurance	28+ hours
Mission range	2,500 km
Telemetry link	220 km
Cruise speed	110 km/h
Temperature	−35°C to +55°C

POWERPLANT & CREW

Engine	Gasoline EFI 4-stroke
Fuel	AI-95 (regular)
Fuel consumption	~1.5–2 L/hr
Pilot licence	Not required
Launch	Catapult · 25 min
Cost per hour	~\$703

Airbus Helicopters
A H145

Twin-engine helicopter · HEMS / SAR / Police

\$8–12_m

system price + VAT



FLIGHT PERFORMANCE

Endurance	~3.5 hours
Mission range	~650 km
Telemetry link	Line-of-sight only
Cruise speed	230 km/h
Temperature	−40°C to +50°C

POWERPLANT & CREW

Engine	2× Safran Arriel 2E
Fuel	Jet-A1 (aviation)
Fuel consumption	~220 L/hr
Pilot licence	CPL-H / ATPL-H
Launch	Certified helipad req.
Cost per hour	~\$2,800

28 Hours **vs** 3.5 Hours

While **Raybird** completes 1 sortie, **H145** lands and refuels 8 times

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 **Raybird**

28

Hours

1 sortie · 0 refuels · 0 crew rotations

8x

LONGER

Airbus Helicopters

A H145

3.5

Hours

8 sorties · 8 refuels · 3+ crew rotations



True Cost of Operation

What helicopter surveillance **actually** costs

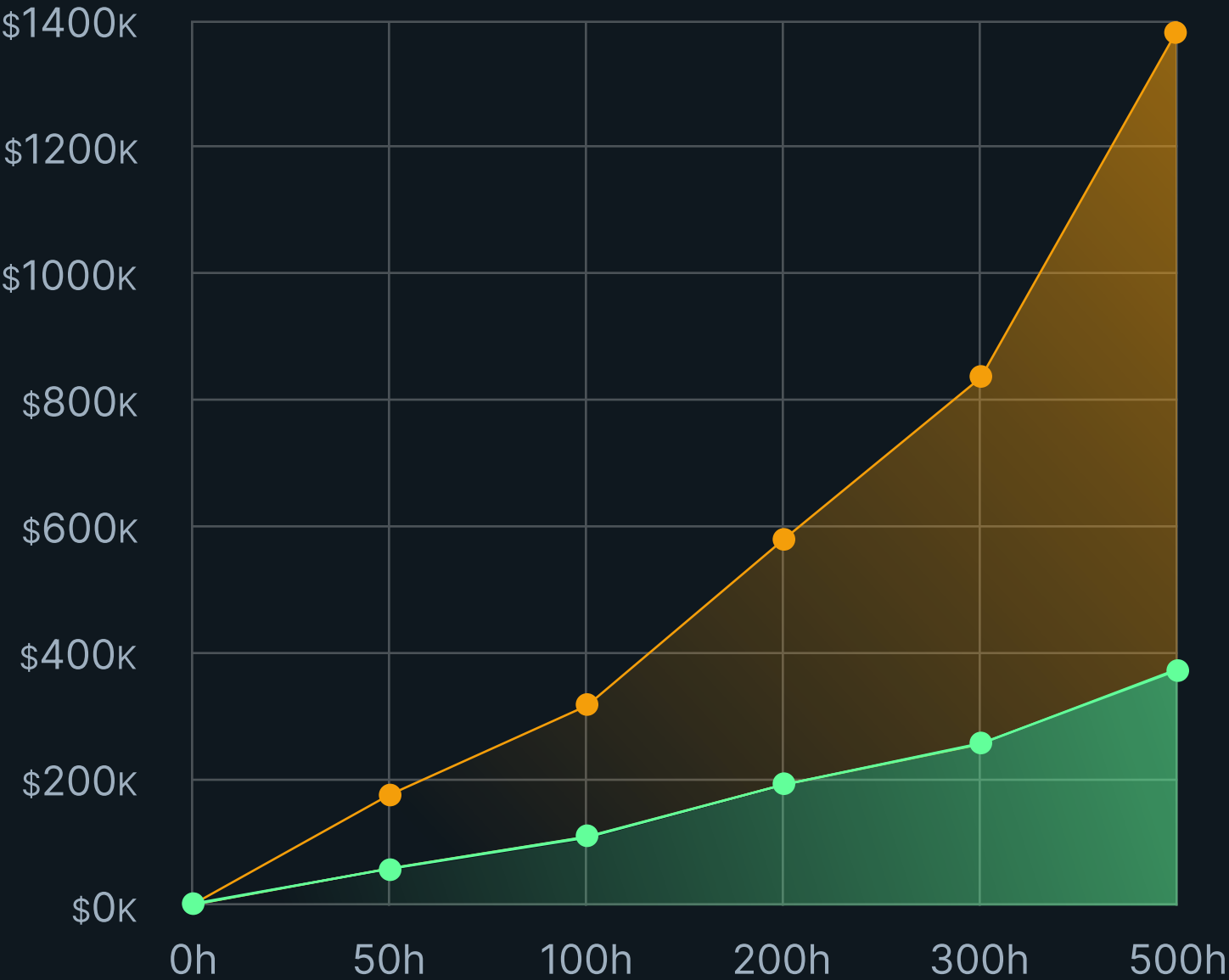
COST PER FLIGHT HOUR BREAKDOWN

	Raybird	H145
System amortization	\$560	\$1,500
Fuel / energy	\$3	\$450
Crew (pilots + observer)	\$80	\$420
Maintenance	\$40	\$380
Insurance & overhead	\$20	\$50
TOTAL / HR	\$703	\$2,800

H145 is more expensive
per flight hour

4.0x

CUMULATIVE COST — HOURS OF OPERATION

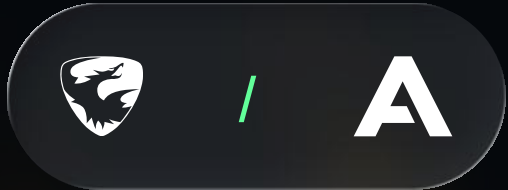


Annual savings
(500h ops)

Save \$1.05m

The Numbers Don't Lie

Raybird vs Airbus H145 — apples to apples comparison for surveillance missions



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Crew at Risk

Raybird is flown remotely. No pilot, no observer, no exposure to smoke, fire, or hostile terrain.

H145 requires 2–3 crew in-zone

8x

More Endurance

28 hours continuous flight vs 3.5 hours for the H145. One Raybird sortie covers an entire shift.

H145 needs 8 rotations to match

4x

Lower Cost/Hour

~\$703/hr all-in for Raybird vs ~\$2,800/hr for the H145. Same mission, fraction of the budget.

H145 burns \$2,800 per flight hour

75%

Budget Saved

On a 30-day continuous monitoring mission, Raybird saves ~\$1.5M compared to helicopter coverage.

per 30-day monitoring campaign



Same result

Full-area surveillance, thermal imaging, real-time video stream — at a quarter of the cost and eight times the endurance.

Value Comparison

What you get



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Raybird
Ground-controlled · 2 operators
\$560_k
platform cost



**28_h
endurance**

One sortie covers
an overnight shift
without landing



**~\$703 price
for hours**

All-in: fuel, crew,
amortisation,
maintenance



**Night flight
is ready**

Thermal + EO
sensors, autonomous
flight in darkness



Airbus Helicopters
A H145
Manned helicopter · 2–3 crew
\$8–12_m
platform cost



**3.5_h
endurance**

Must land to refuel
creates coverage
gaps



**~\$2800 price
for hours**

Jet-A1 fuel, 2–3
salaries, MRO cycle,
hangar costs



Heavy MRO

EASA CS-27
maintenance cycles
add weeks of
downtime per year

\$560_k

vs

\$8–12_m

Same surveillance output. Same thermal imaging. Same real-time video.

16× cheaper platform

Real Mission

02:17 AM. Who Was There?



A wildfire ignites deep in a remote pine forest. No one on the ground knows yet. The fire spreads fast — every minute counts.



The drone has been on overnight patrol since 19:00. Its thermal sensor flags the heat anomaly instantly. GPS coordinates locked.



The operator wakes up to an alert. Live thermal video streams in real-time. Fire brigade is called with exact coordinates within 60 seconds.



Pilots were called from home, drove to the helipad, ran pre-flight checks. The H145 lifts off 63 minutes after the fire started.



Fire brigade reaches the site in time. Guided by Raybird's live coordinates — before the fire could spread to the next ridge.

What does it take to launch?

Deployment & Logistics

Skyeton
 Raybird



LOCATION REQUIREMENTS

- ✓ Any flat area 50 × 10 m (field, road, parking)
- ✓ No runway, no helipad, no airport
- ✓ Works in remote wilderness, mountains, coast

PERSONNEL

- ✓ 2 trained operators (no pilot licence required)
- ✓ Training: weeks, not years
- ✓ Operators work from safe ground station

FUEL & INFRASTRUCTURE

- ✓ Regular AI-95 gasoline — available at any fuel station
- ✓ ~1.5–2 L/hr consumption
- ✓ Ground control station fits in SUV trunk

Airbus Helicopters
A H145



LOCATION REQUIREMENTS

- ✗ Certified helipad or open area min. 30 × 30 m
- ✗ Obstacle-free approach/departure paths
- ✗ Permanent base or forward operating base needed

PERSONNEL

- ✗ Min. 2 certified pilots (CPL-H / ATPL-H)
- ✗ Pilot training: 2–5 years + 1,500+ flight hours
- ✗ Certified A&P mechanic on standby

FUEL & INFRASTRUCTURE

- ✗ Jet-A1 aviation fuel — special supply needed
- ✗ ~220 L/hr consumption · fuel truck required
- ✗ Maintenance hangar + spare parts inventory

Raybird fits in a standard SUV and launches from any field — H145 needs a permanent base, fuel truck, and certified crew



About Skyeton

Manufacturing in Ukraine + Slovakia

Deployed across civilian and security sectors in Europe

Active partnerships with European defense

Continuous product development driven by real field mission

Developing next-generation UAV platforms

80% in-house components

Provides operator training and mission planning support

300,000+ mission hours logged

1,000+ UAV systems delivered

Full after-sales support

Produced internally — no third-party dependency

EU manufacturing in Slovakia

Civil protection agencies

Team covering aerodynamics, electronics, and software

Maintenance, spare parts, and system upgrades

Contact the Skyeton team to discuss your mission requirements and system configuration

 Contact Us → skyeton.group/contact

 Explore Product → skyeton.group/product

