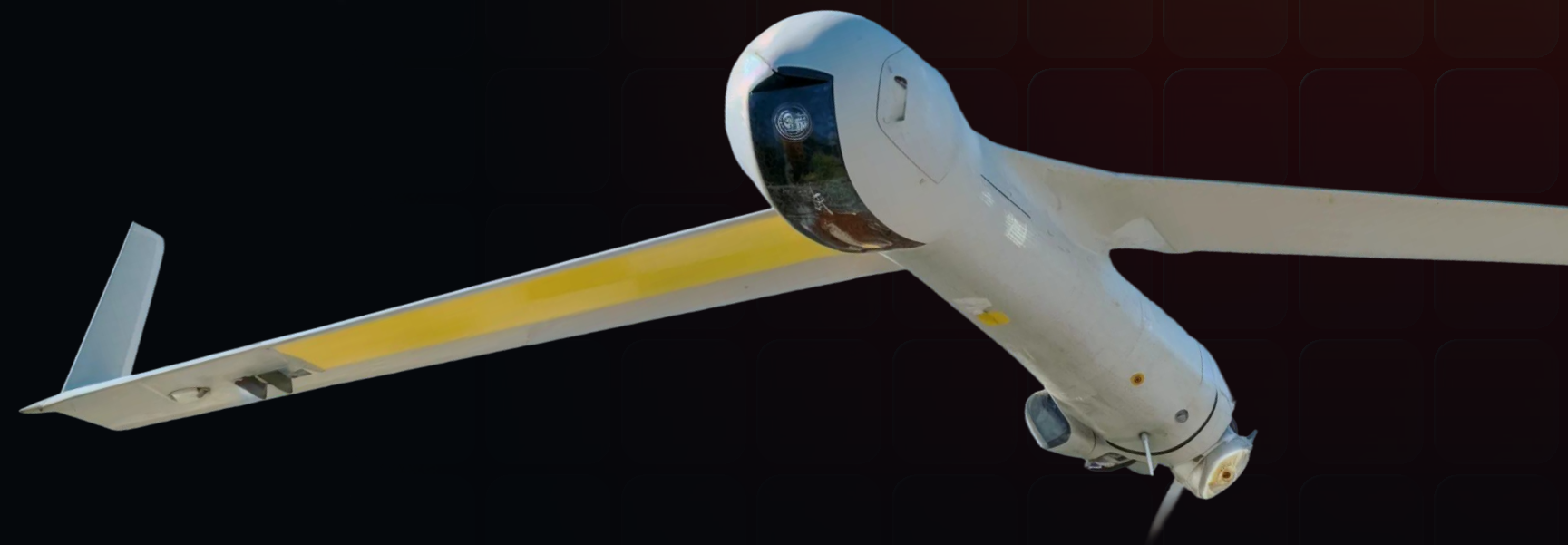


SKYETON

Raybird vs ScanEagle

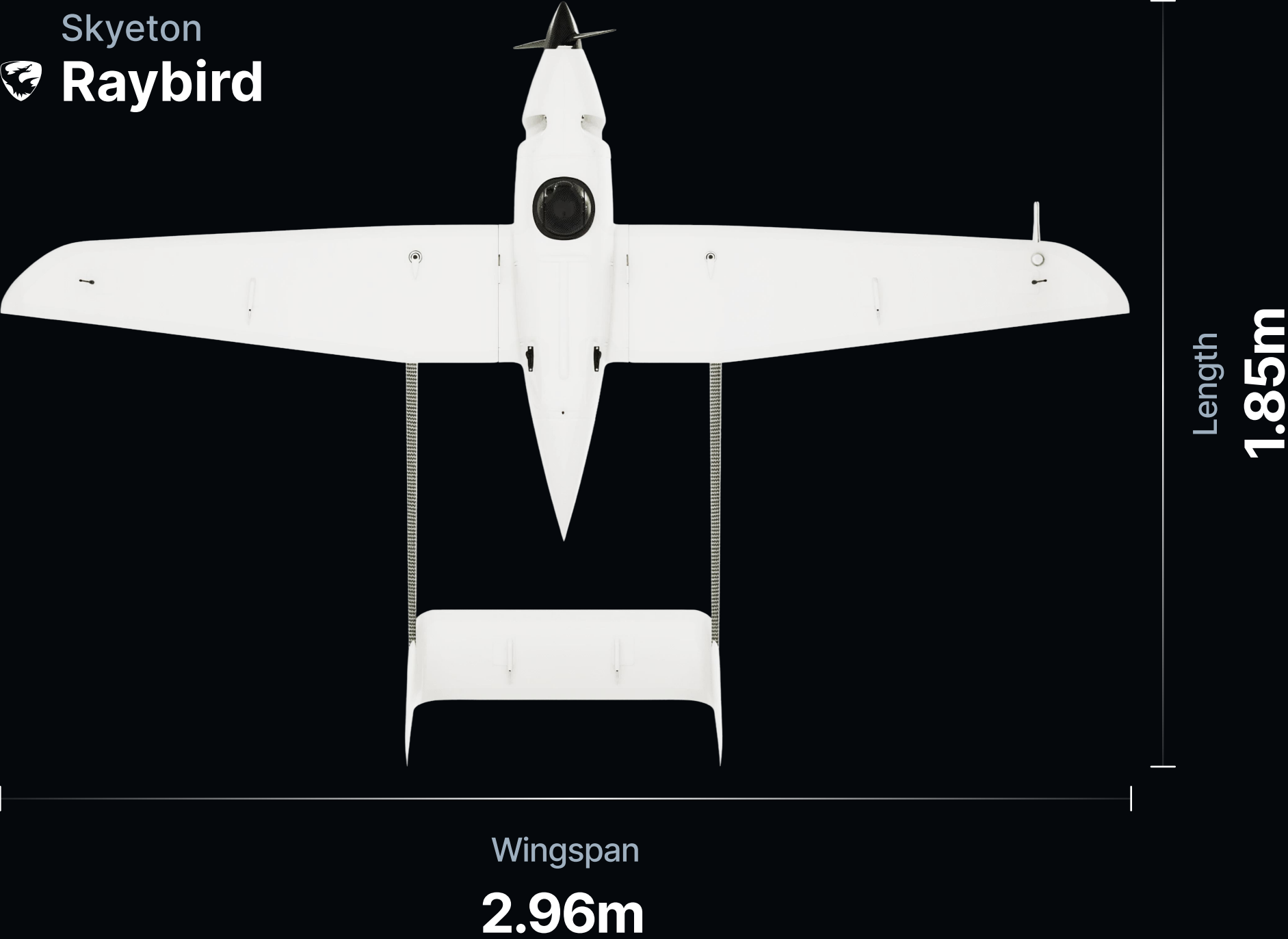


A Performance Comparison for Serious Surveillance Missions

Skyeton © 2026

Size Comparison

Scale, weight, and footprint — side by side



Height	Wingspan	Length	Payload	MTOW	Height	Wingspan	Length	Payload	MTOW
0.50m	2.96m	1.85m	5–10kg	23kg	~0.35m	3.11m	1.55m	3.4kg	22kg

Sk yeton Raybird



\$560.000 +VAT



TECHNICAL SPECIFICATIONS

Flight Endurance
28+ hours

Wingspan
2.96 – 4.2 m

Max Take-Off Weight
23 kg

Max Mission Range
2,500 km

Operational Ceiling
5500 m

Telemetry Link Range
up to 220 km

Payload Capacity
5–10 kg

Cruise Speed
80 / 110 / 140 km/h

Engine Type
EFI four-stroke engine

Fuel Type
Gasoline AI-95

Deployment Time
up to 25 min

Operating Temperature
-35°C to +55°C

Boeing Insitu ScanEagle



~\$3.2-4M_{+VAT}



TECHNICAL SPECIFICATIONS

Max Endurance
20-24 hours

C2 Link Range
100 km (line-of-sight)

Max Take-Off Weight
22 kg

Cruise Speed
80-130 km/h

Ceiling
5,900 m MSL

Temperature
-20°C to +50°C

Payload Capacity
~3.4 kg

Deployment
~30-60 min (catapult setup)

Engine Type
3W-28i gasoline piston, ~1.5 hp

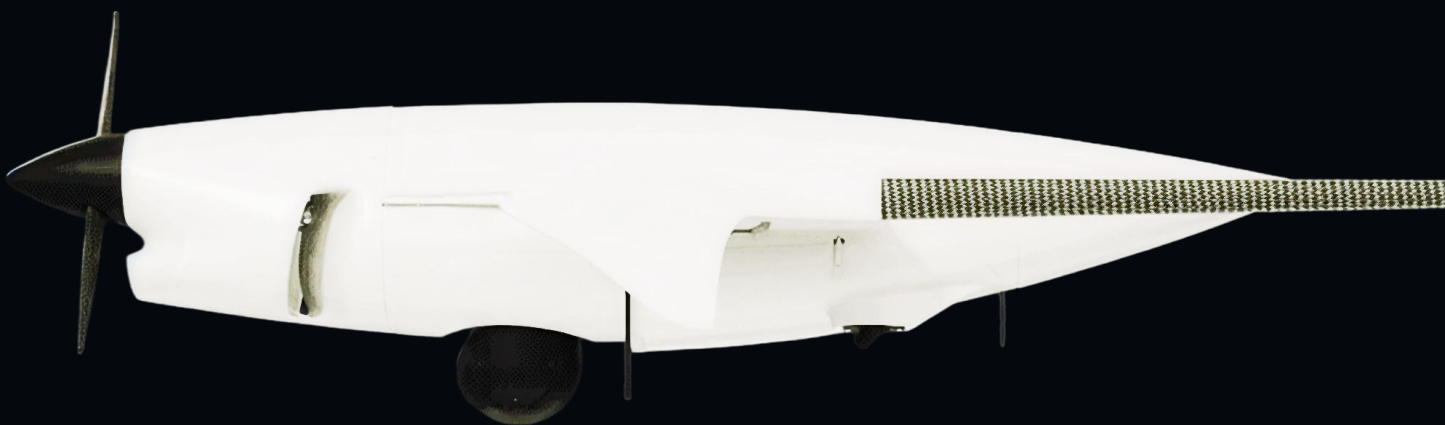
Launch
Pneumatic catapult (SuperWedge)

Certification
Military (US DoD), limited civil

Wind Resistance
25 knots (~46 km/h)

Real Capabilities

Real Missions



REAL-WORLD MISSION SCENARIOS

Who Wins in the Field?

Mission	Skyeton  Raybird	Boeing Insitu  ScanEagle
 Wildfire overnight monitoring	 1 sortie, full night	 2 sorties · catapult + SkyHook required · 100 km radius only
 Search & rescue in remote terrain	 Continuous 220 km coverage	 100 km range · catapult crew + recovery team required on-site
 24h surveillance mission cost	 ~\$18K · 1 crew 1 unit · 2 operators · 1 launch	 ~\$43K+ · 4-5 crew 1 system · 10 operators · catapult + recovery crew

Payload Capacity Changes Everything



Skyeton
 **Raybird**

5–10 kg payload

- ✓ Full EO/IR dual-axis gimbal
- ✓ High-res thermal camera
- ✓ AIS / comms relay
- ✓ Multiple sensors simultaneously



Boeing Insitu
 **ScanEagle**

up to 3.4 kg payload

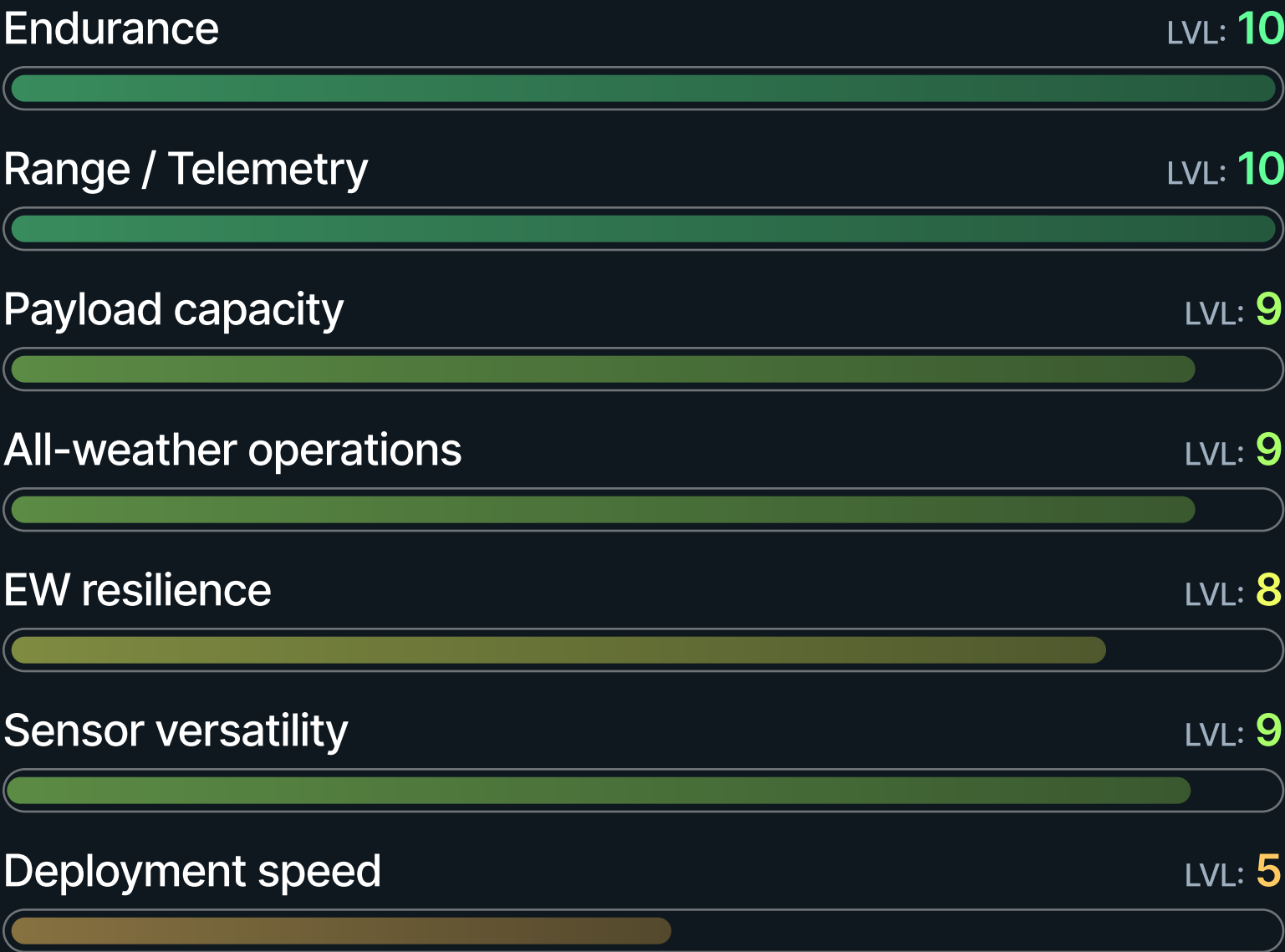
- ✓ EO/IR gimbaled camera (standard)
- ✗ Single payload bay — one sensor at a time
- ✗ Cannot carry thermal + EO simultaneously
- ✗ No AIS / comms relay

220km **vs** 100km

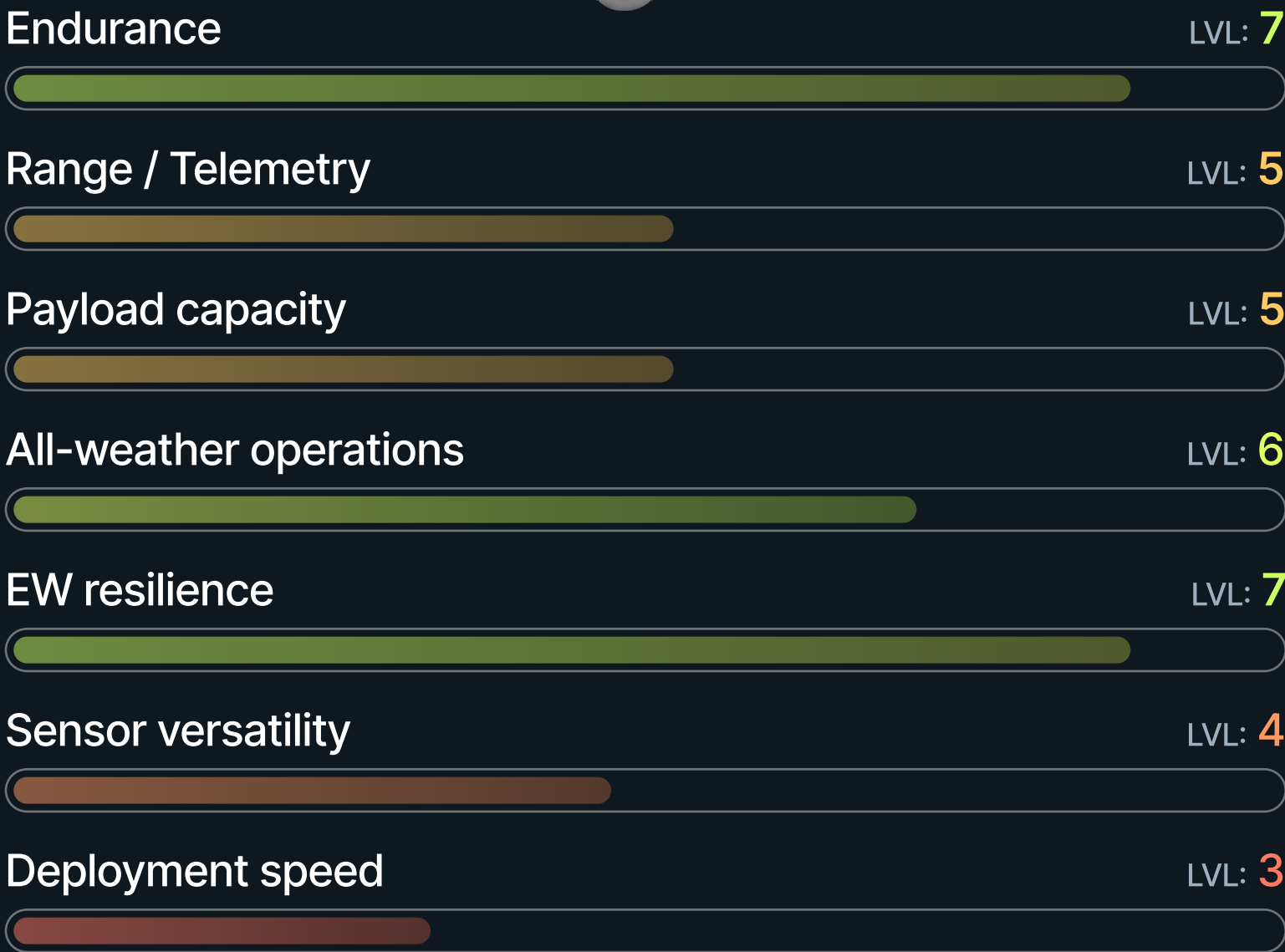
Raybird covers 2× more territory — from any location, no catapult needed

VS

Skyeton
Raybird



Boeing Insitu
ScanEagle



24H COVERAGE METRIC

1 sortie

28h × 110 km/h · 0 relaunches

3.080 km

4.5x
more territory covered

🔥 Wildfire overnight

S+

🔍 Search & Rescue

S+

🛡️ Border patrol 24h

S

🏗️ Infra inspection

A

🗺️ Precision mapping

C

S+ Elite · S Pro · A Advanced · B Good · C Average · D Weak · F Fail

Surveillance score

Catapult · Gasoline EFI

85/100

24H COVERAGE METRIC

2 sorties

20h × 100 km/h = 2,000 km

2,000 km

2.2x
less range

🔥 Wildfire overnight

B

🔍 Search & Rescue

C

🛡️ Border patrol 24h

B

🏗️ Infra inspection

C

🗺️ Precision mapping

B

S+ Elite · S Pro · A Advanced · B Good · C Average · D Weak · F Fail

Surveillance score

Catapult launch · Gasoline piston

58/100

Boeing Insitu
ScanEagle

Skyeton
Raybird

Coverage area
31,400 km²

Coverage area
152,000 km²

Operator

MAX OPERATOR RANGE · COVERAGE RADIUS

Skyeton
Raybird

Max operator range 220 km
Coverage area 152,000 km²
Circles at max radius* 2.2×

\$560.000 +VAT

Boeing Insitu
ScanEagle

Max operator range 100 km
Coverage area 31,400 km²
Circles at max radius* ~3.2×

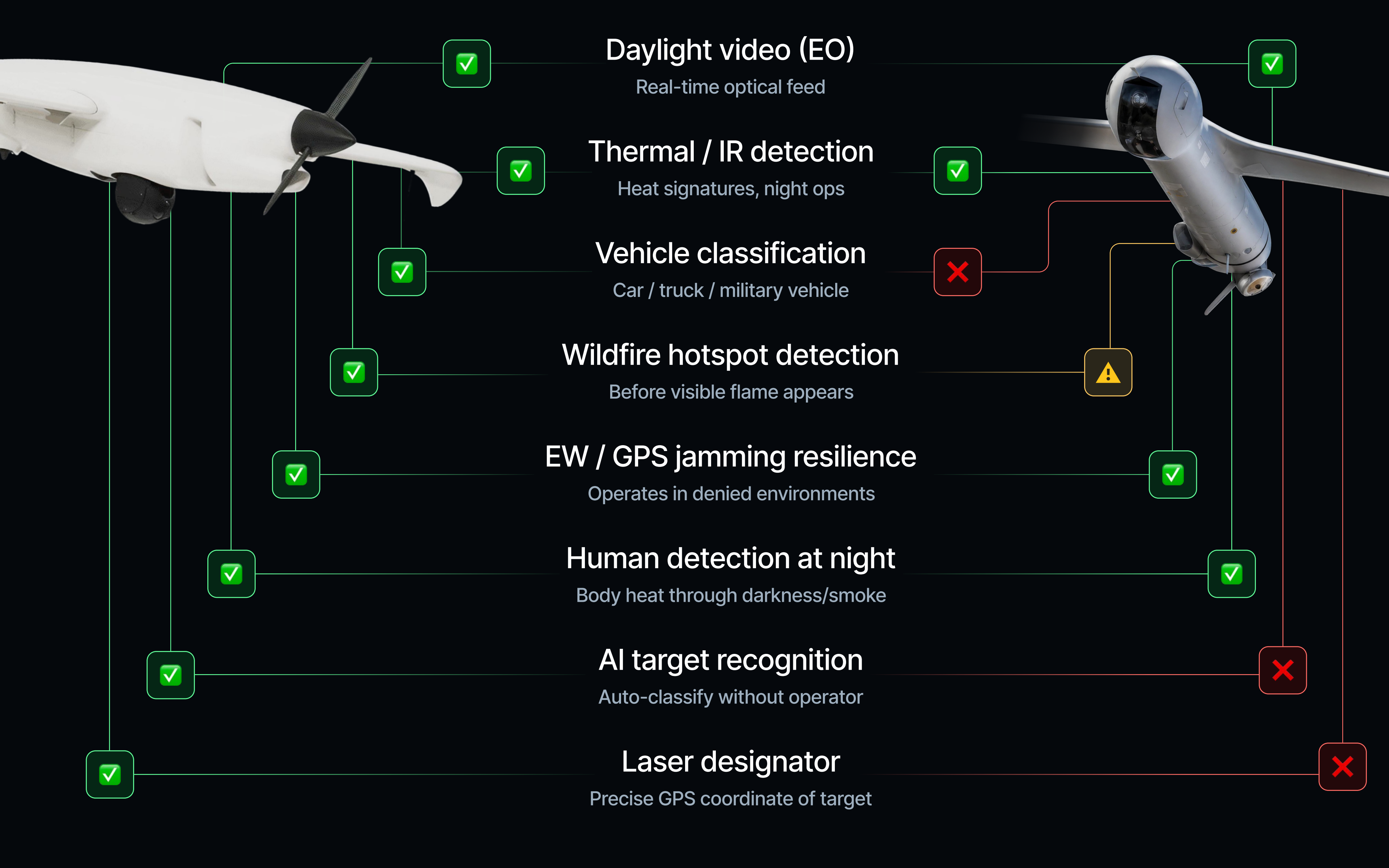
\$3.200.000 + +VAT

COST EFFICIENCY

Raybird: **\$3.68/km²** vs ScanEagle: **\$101/km²**

cheaper cost per km²
monitored

27 ×



Daylight video (EO)

Real-time optical feed

Thermal / IR detection

Heat signatures, night ops

Vehicle classification

Car / truck / military vehicle

Wildfire hotspot detection

Before visible flame appears

EW / GPS jamming resilience

Operates in denied environments

Human detection at night

Body heat through darkness/smoke

AI target recognition

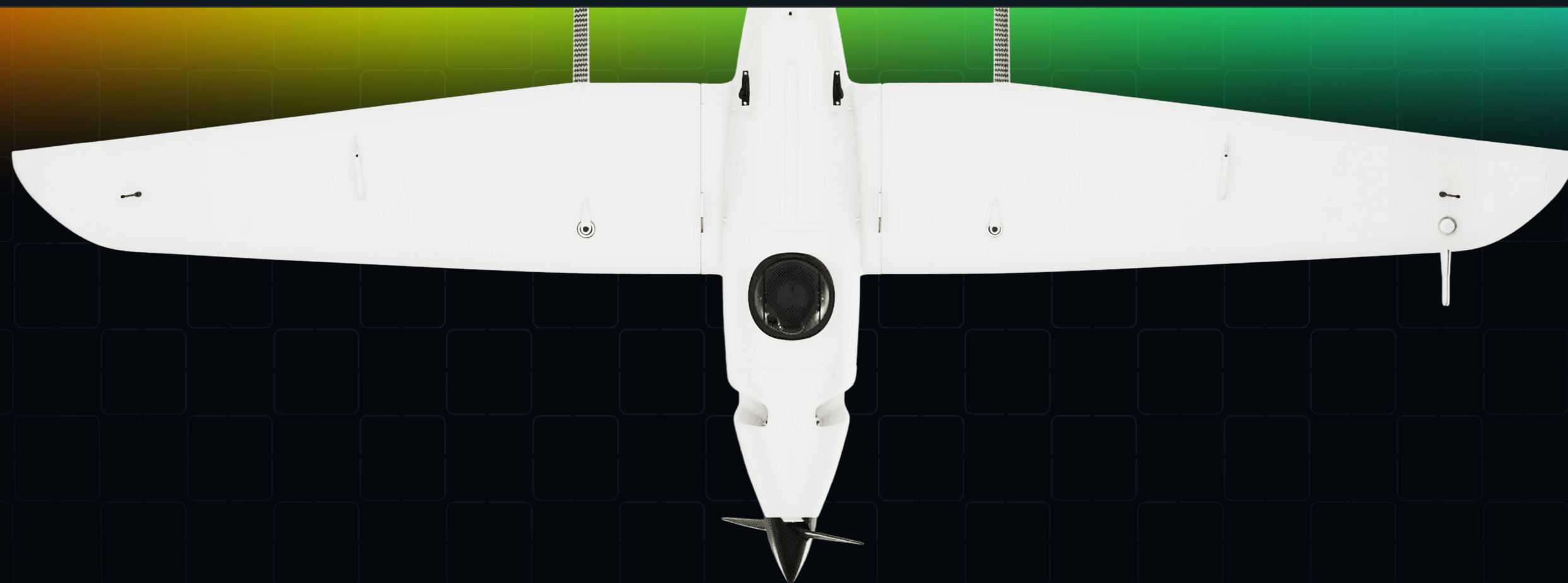
Auto-classify without operator

Laser designator

Precise GPS coordinate of target

THE VERDICT

Different Tools One Clear Winner for Surveillance



*When the mission doesn't stop,
neither does Raybird*



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

