



SHARK TRACKER

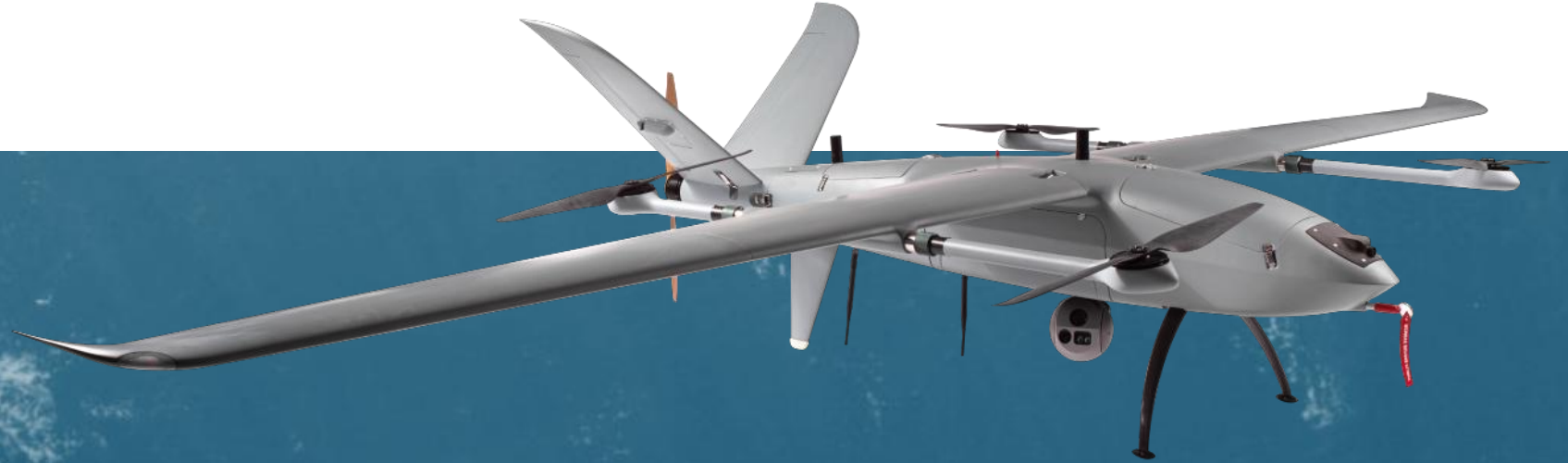
ADVANCED VTOL SURVEILLANCE – BY APAC SURVEILLANCE PTY LTD



NEXTGEN

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Wildlife & Game
Monitoring

Atlas VE platform shown

NEXTECH

SHARK TRACKER NEXTECH

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Wildlife conservation and game management present unique challenges, including predator tracking, poaching, habitat degradation, and the need for precise population monitoring.

Traditional methods often require significant manpower, time, and financial resources while still posing risks to both researchers and animals. As conservation efforts evolve, technology is playing an increasingly vital role in improving monitoring and protection strategies.

The APAC/Nextech's drones for wildlife monitoring provide an efficient, non-invasive solution for tracking animal populations, surveying ecosystems, and ensuring the safety of protected areas. These advanced UAVs (Unmanned Aerial Vehicles) offer high-resolution imaging, real-time data transmission, and extended flight times, making them invaluable tools for conservationists, researchers, and game reserve managers.

ENDURANCE



The Atlas-V has been carefully designed to provide the ideal balance between Endurance and Range for the fuel model

ACCURACY



ATLAS-V boasts an impressive accuracy level, achieving pinpoint precision with less than 1 cm pointing accuracy thanks to its dual GPS system.

CRUISE SPEED



With a max cruise speed of 100km/hour, Atlas-V is designed for swift deployment, allowing you to respond to critical situations promptly. Its quick launch capabilities ensure you are up and running within minutes

PAYLOAD



The Atlas-V accommodates multiple/ various payloads including high-resolution mapping systems to advanced surveillance EO/IR cameras with object tracking and more.

RANGE



The Atlas-V has been carefully designed to provide the ideal balance between Endurance and Range

NETWORK



Security is at the core of the Atlas-V's design. Utilizing advanced encryption protocols and secure communication channels, the UAV ensures that mission-critical data remains protected from unauthorized access.

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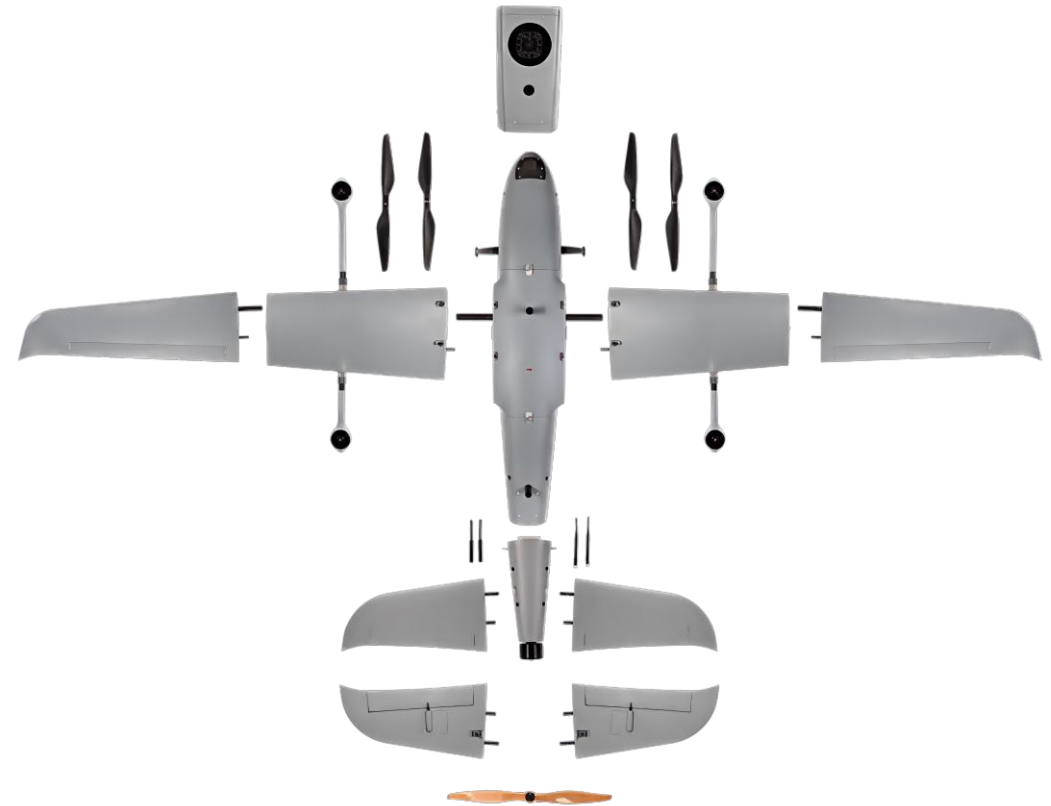


Atlas-V: Advanced Fixed-Wing VTOL UAV

The Atlas-V is a state-of-the-art fixed-wing VTOL UAV (Vertical Take-Off and Landing Unmanned Aerial Vehicle) designed for efficiency and precision in surveillance, inspections, and environmental monitoring. Its BVLOS (Beyond Visual Line of Sight) capability ensures reliable data collection, making it an essential tool for professionals who require the use of a long-range fixed wing UAV.

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Atlas VE platform shown

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Atlas VE platform shown

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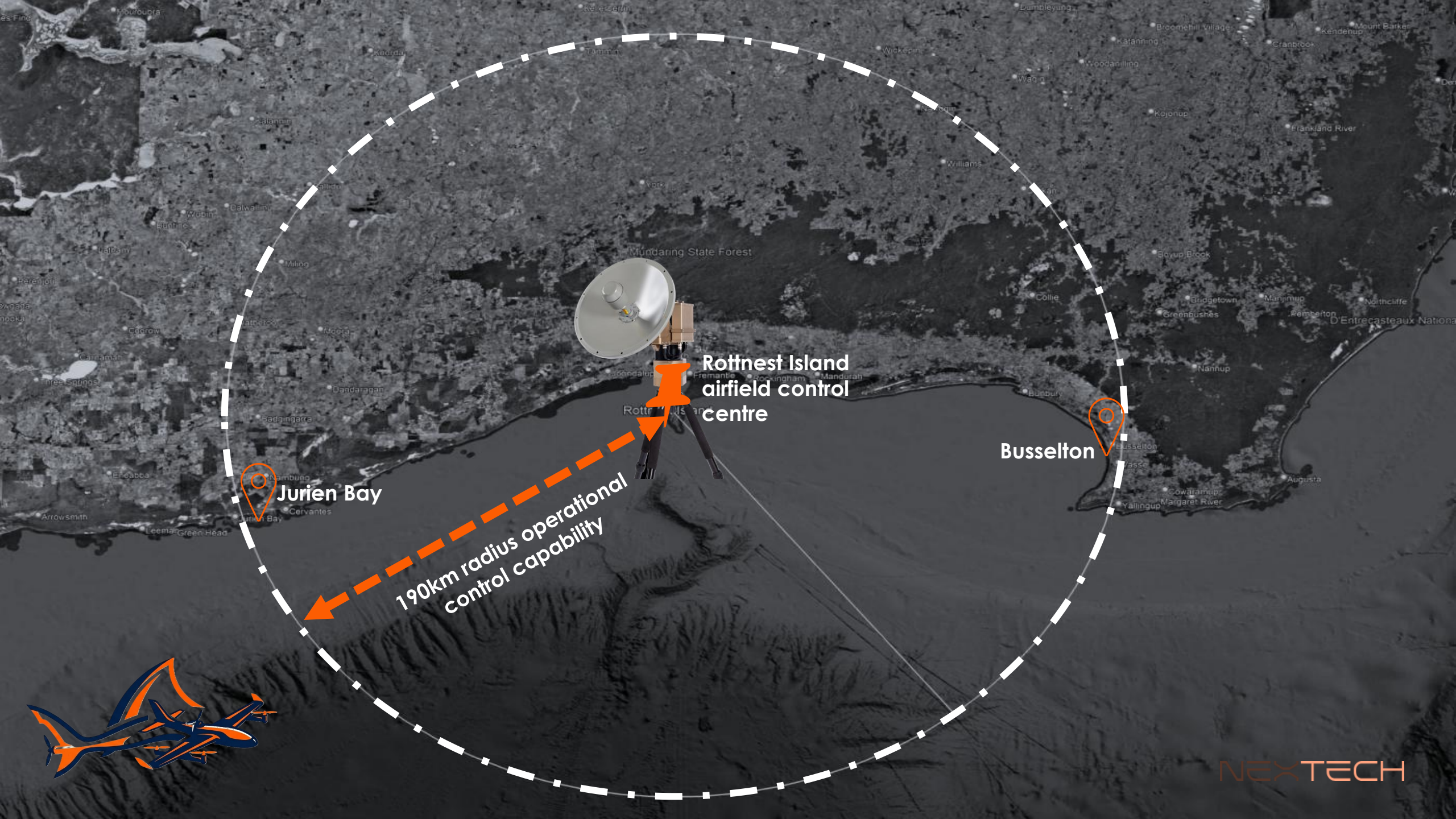
example

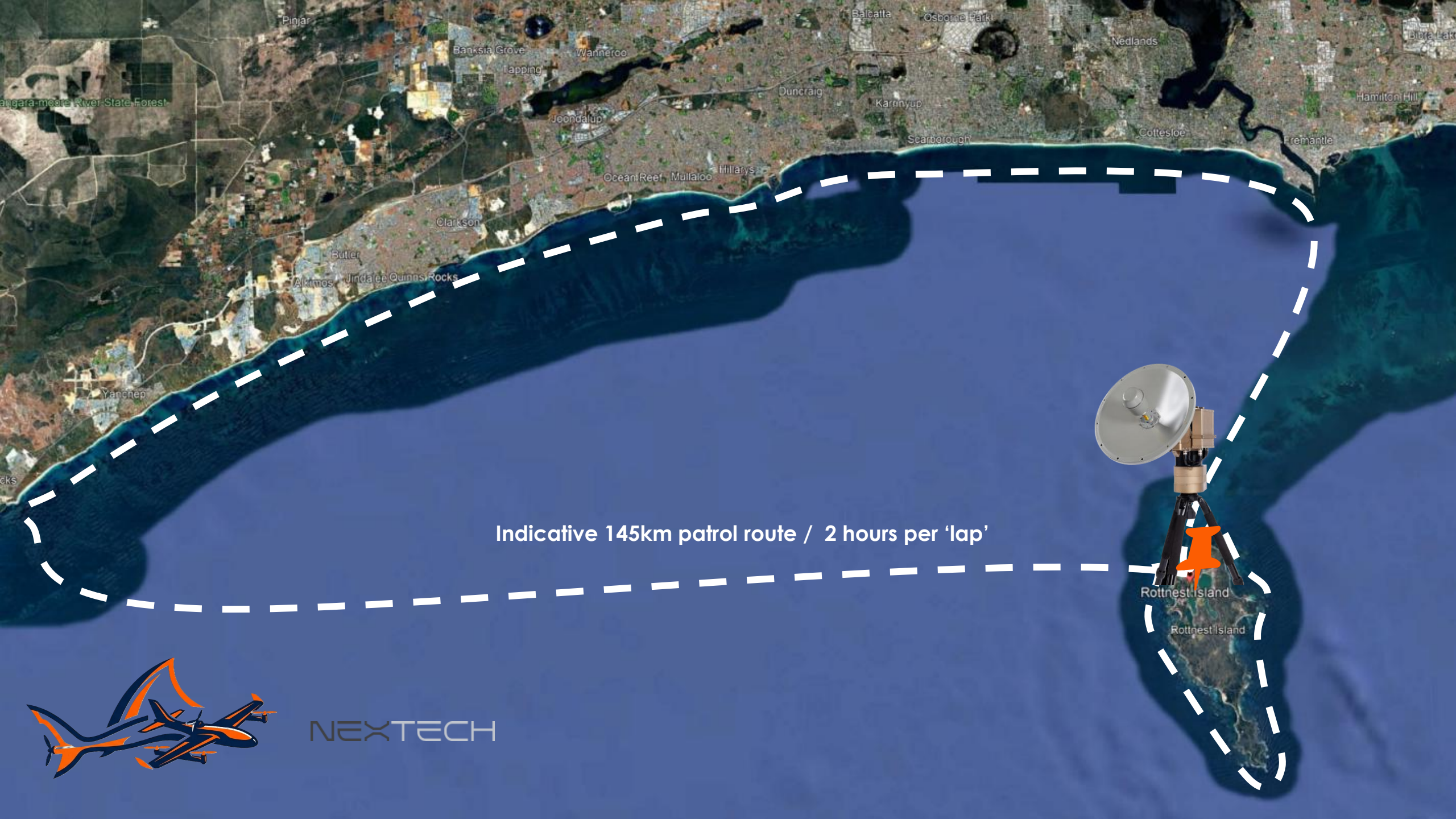


Rottnest Island's perimeter is approximately 35km, our VTOL Shark-Patrol drone can patrol this zone for over 8 hours continuously before a quick battery change is /refuel is required. (8 minutes) + landing and take off time)

The drone cruises at +80km/hr (stall speed is 65km/hr), meaning that the drone can provide perimeter cover for Rottnest as follows:

- Cruise height 200m (very quiet)
- Calc: 35km perimeter @ 85km/hr = 2.5 times per hour.
- = 20 times per battery charge for 8 hours of flight.
- Hanger space and drone pilot based at the Jimmy Woods Building on Rottnest Island. 



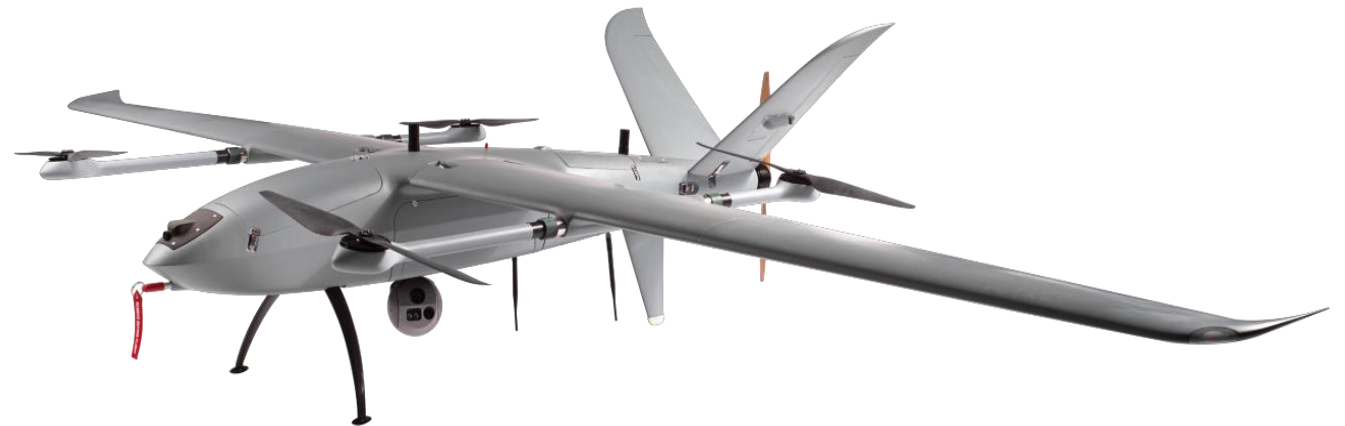


Indicative 145km patrol route / 2 hours per 'lap'



NEXTTECH

Type	Fixed-wing Fuel internal combustion
Flight Time	10 hours (dependant on the payload weight)
Flight Path	800 km
Deployment	under 8 min
Flying Software	We provide a laptop with the flying software pre-loaded. VTOL (Vertical Take-off and landing) no need for launch or recovery equipment nor a runway.
Flight Characteristics	
Cruise Speed	80 km/h
Stall Speed	65 km/h
Flight Ceiling	4500m ASL
Launch /Land altitude	2000m ASL
Maximum Wind Speeds	45 km/h
Launch/ Land Maximum Wind Speeds	18 km/h
Launch/Land Gusts up to	35 km/h
Operating Temperatures	min: -5°C RTF max: 50°C RTF
Length, Width, Height	4.8 m x 2.6 m x 1 m





Max Take-off Weight	65 kg
Payload	15 kg
Communications	Up to 25Mbps 20W @2,4Ghz 10/100 ethernet 2x2 MIMO Multi-payload support, payloads including high-resolution mapping systems to advanced surveillance EO/IR cameras with object tracking and more.
Payload Flexibility	
Propulsion	Internal combustion
Power Source	Electric LIPO battery (141P) / petrol
Handling	Compact modular design means that the aircraft can be rapidly assembled and deployed, by one person.
Transportation Case (L x W x H)	Case 1: 1.8 m x 1 m x 0.8 m // Case 2: 1.8 m x 0.5 m x 1 m
Large Solid Wood crates for safe shipment	Shipment (International Delivery)
Training	Full training provided
Warranty	12 Months
Spare Part package	2 Year, 3 Year and 5 Year packages available
Maintenance Package	2 Year, 3 Year and 5 Year packages available, a 300-Hour Maintenance Kit as part of the standard package
After-sales support	Provided and customizable as per end-user requirements System command room integration or creation Available and customizable as per end-user requirements AIS integration allows the aircraft to receive and decode vessel transponder data in real time, overlaying vessel identity, course, speed etc.
AIS Integration (optional)	
ADS-B Integration (optimal)	ADS-B In/Out integration as an optional extra given the commercial and recreational air traffic in the area.

Specialist deployment configurations — including confined, elevated, or non-standard launch sites, may require additional integration, hardware, or operational assessment.

Payload Recommendations

1. [Trillium HD59 MWIR](#) is strongly recommend presenting the Trillium HD59 MWIR as the preferred payload option for this application.
 - The MWIR thermal sensor provides significantly superior performance in maritime environments — cutting through haze, sea glare, and low contrast backgrounds to deliver clear thermal identification of marine life and vessels at extended standoff range.
 - This is a genuine differentiator for a shark and wildlife patrol mission where detection at distance is critical.



Payload Recommendations

2. NyxCore-D

- NyxCore-D Autonomous Surveillance Software is an optional addition.
- For a persistent maritime patrol application NyxCore-D enables the gimbal to autonomously scan the defined patrol sector and detect and track maritime objects at extended range without continuous operator input — significantly reducing operator workload during long sorties.



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