



ROBOTTO

Anti-Poaching

Upgrading anti-poaching systems with aerial imaging, autonomous flight and AI detection.

- Assisted Autonomy
- Object Avoidance
- Situational Flight Paths
- AI-Powered Detection

Providing first responders with industry leading intelligent robotics.

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Dear Reader,

Welcome to a world where technology and conservation join hands to make a significant difference. At Robotto, our mission has always been to use cutting-edge technology to address some of the world's most pressing issues, and I am proud to introduce you to our Anti-Poaching drone aerial detection solution - a groundbreaking initiative that promises to revolutionize the field of wildlife conservation.

In the face of escalating wildlife crime, the need for an effective response has never been more urgent. Traditional approaches have been important, but they're often limited in their reach and effectiveness. That's where Robotto steps in. By leveraging our expertise in AI and robotics, we've developed a solution that not only detects potential threats but also enables rapid, real-time response.

Our unique onboard processor with AI detection provides an aerial vantage point, giving wildlife protectors an unparalleled advantage. With real-time detection and enhanced coverage, our solution is making conservation efforts more efficient and effective than ever before.

But our work goes beyond just creating a technological solution. At Robotto, we believe in the power of collaboration. Our partnerships, including our work with the European Space Agency and WWF Thailand, are critical to our mission. Together, we're not just protecting wildlife; we're helping to maintain biodiversity and support local communities.

The journey so far has been both challenging and rewarding, but we believe this is just the beginning. As we look to the future, we are excited about the potential of our technology and the opportunities it holds for conservation.

Thank you for your interest in Robotto and our Anti-Poaching drone aerial detection solution. I invite you to read on, learn more about our work, and join us in our mission to protect wildlife and secure a sustainable future for all.

Warm regards,

Kenneth Richard Geipel



In the following brochure we'll take you through what the technology can do, who can benefit from this technology, how it works and show you what the interface looks through.

If you have any questions about Robotto's anti-poaching technology please feel free to reach out to the team at info@robotto.ai

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Discover the drone's AI capabilities, its benefits, and how it enhances swift, efficient actions against poaching

3 Robotto's Anti-Poaching Drones

In this section, we'll introduce you to Robotto's Anti-Poaching Drone Solution. You'll learn about the revolutionary technology that powers it, including real-time aerial surveillance and AI algorithms. See how it's changing the game in wildlife conservation by providing rapid detection and response to potential poaching threats.

4 Versatile Applications: A Game-Changer Across Sectors

In this section, explore the diverse utility of Robotto's Anti-Poaching Drone Solution across sectors such as national parks, conservation organizations, safari tours, farming, and government wildlife protection. Learn how our technology adapts to different needs, ensuring safety, preventing theft, and enhancing conservation efforts.

5 How it Works

In this section, we simplify the process of using Robotto's Anti-Poaching Drone. Discover how, in three easy steps, you can select an area for surveillance, launch the autonomous mission, and manage potential detections. Get a glimpse of how this intuitive technology seamlessly integrates into your conservation work.

6 Making Aerial Detection Easy

This section breaks down how Robotto's aerial detection solution elevates your security with user-friendly features. Learn how to select your operation area, monitor missions, access live video feed, and manage detections with our intuitive interface. See how key mission information is displayed, and understand how the drone operates in real-time. A sneak peek into the software's user interface is included for a complete understanding.

7 Hardware Options



Robotto's Commitment

In a world where technology is advancing at lightning speed, Robotto harnesses the power of robotics and artificial intelligence to create solutions that serve the greater good. We're more than just a tech company; we're a team of passionate individuals committed to making a lasting, positive impact on our planet.

The Poaching Problem: A Silent Epidemic

Poaching is a cruel, illegal practice that devastates wildlife populations, threatens biodiversity, and undermines local economies dependent on eco-tourism. From majestic elephants and rhinos to the smallest creatures, no animal is immune to this relentless threat. Beyond the wildlife, the ripple effects of poaching also impact local communities and global conservation efforts.

Our Mission: Technology for Wildlife Conservation

At Robotto, we understand the urgency to intervene. That's why we've dedicated our resources and expertise to develop an innovative solution capable of turning the tide in the fight against poaching. Enter our Anti-Poaching Drone Aerial Detection Solution - a game-changer in wildlife conservation.

In the following pages, we'll introduce you to this revolutionary technology and show you how it's set to redefine the way we protect our planet's precious wildlife.

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Robotto's Anti-Poaching Drones: Transforming Wildlife Conservation

With the merging of cutting-edge technology and our profound commitment to conservation, Robotto has developed a unique solution to combat wildlife poaching - the Anti-Poaching Drone Aerial Detection Solution. This trailblazing innovation aims to equip those on the frontlines of wildlife protection with the tools they need to detect and deter poaching activity.

The Technology

Our advanced drone technology provides real-time aerial surveillance across vast and challenging terrains. Utilizing high-resolution imagery and infrared sensors, our drones can detect suspicious activity even in the dead of night.

The Power of AI

At the heart of our Anti-Poaching Drone is a powerful AI algorithm. This AI capability enables the drone to identify potential threats from the air, distinguishing between animals, humans, and vehicles. Once a threat is identified, the drone sends an immediate alert to the local rangers or authorities, providing them with the exact location of the potential poaching activity.

Making an Impact

Our solution provides an extra set of eyes in the sky, covering more ground than ever before and giving wildlife a fighting chance against poaching. It's not just about advanced technology; it's about using that technology to create a safer, sustainable world for all creatures.



What you can expect with Robotto

Instant alerts and fast action to keep wildlife safe

Step into the future with Robotto's Anti-Poaching Drone Solution - an easy-to-use, innovative tool that uses AI to protect wildlife from poaching. Our drones, with their unique human detection ability, provide a bird's-eye view for monitoring large areas efficiently. Less time patrolling, more time acting - that's what our drones offer to park rangers, conservationists, and everyone dedicated to preserving our planet's wildlife.

Quick Detection

With AI, our drones quickly identify potential threats, saving critical time.

Broad Coverage

Cover large areas with fewer resources, making your operations more efficient.

Rapid Response

Instant alerts enable quicker response times, potentially preventing poaching incidents.

Easy to Use

User-friendly design and operation make it easy for anyone to use, regardless of tech experience.

Full autonomy in aerial surveillance is within your grasp by integrating a docking station into your setup. This addition allows your UAV, whether a quadcopter or fixed-wing model, to operate independently, enhancing efficiency and reducing the need for constant human intervention. Coupled with the AI-powered detection abilities of the Hawk or Falcon systems, the docking station enables continuous, high-precision surveillance. Not only will it streamline your operations, but it also elevates your security measures to new heights, providing unmatched, AI-driven aerial surveillance around the clock.

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Versatile Applications:

A Game-Changer Across Sectors

The diverse utility of our Anti-Poaching drone aerial detection solution extends across various sectors, offering each a unique set of advantages. Whether it's national parks, wildlife reserves, conservation organizations, safari tour operators, livestock owners, or government wildlife protection agencies, our solution adapts to meet your specific needs.

National Parks and Wildlife Reserves:

With vast expanses often difficult to monitor, our solution steps in to provide extensive coverage. Early detection of potential poachers can lead to immediate intervention, drastically reducing the threat to wildlife.

Conservation Organizations:

Our partnership with WWF Thailand serves as a testament to the value we provide to conservation organizations. Using our solution, WWF Thailand can now oversee their elephant sanctuaries more effectively, ensuring the safety of these majestic creatures.

Safari Tour Operators:

The safety of tourists is paramount. Our solution provides an additional layer of security, enabling operators to detect and respond to any threats in real-time, thereby ensuring a safe and enjoyable experience for all safari-goers.

Livestock Owners/Farmers:

Livestock theft can be a significant concern, and our solution serves as a deterrent to potential thieves. With aerial surveillance, farmers can keep a constant eye on their herds, preventing theft and minimizing collateral damage.

Government Wildlife Protection Agencies:

Our solution assists government agencies in their wildlife conservation efforts by providing an advanced, reliable, and easy-to-use surveillance system that can cover large areas with limited resources.



How it Works

Our passion is making robotics and artificial intelligence simple and easy to use. Follow these few steps to strengthen your security.

01 – Select An Area

using the controller, select the area to survey. It's easy, drop points on the touch screen and create a boundary for the drone to survey.

02 – Start the Mission

Now that you've identified the area, you just need to start the mission. Robotto's technology takes over the drone, making it fully autonomous with dynamic flight paths. The drone is now in the air, running what it sees through Robotto's aerial AI.

03 – Sort through detections

As the drone flies and the AI detects potential intruders, you will be promoted to verify detections. You can add a point to the map to explore later, take over manual control and explore now or discard the detection.

The hardware fits you

Your requirements may not align with those of your colleagues, which is why we've developed adaptable solutions suitable for both quadcopter and fixed-wing UAVs. You have the option to pair either the Hawk or Falcon systems with the Robotto Brain, amplifying your aerial detection capabilities remarkably. Should you seek to achieve full autonomy in your aerial surveillance, consider adding a docking station to your setup

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Making Aerial Detection Easy

Upgrading your security doesn't need to be difficult. With Robotto's aerial detection solution, you're able to rest easy knowing the location and movement of those on your property.

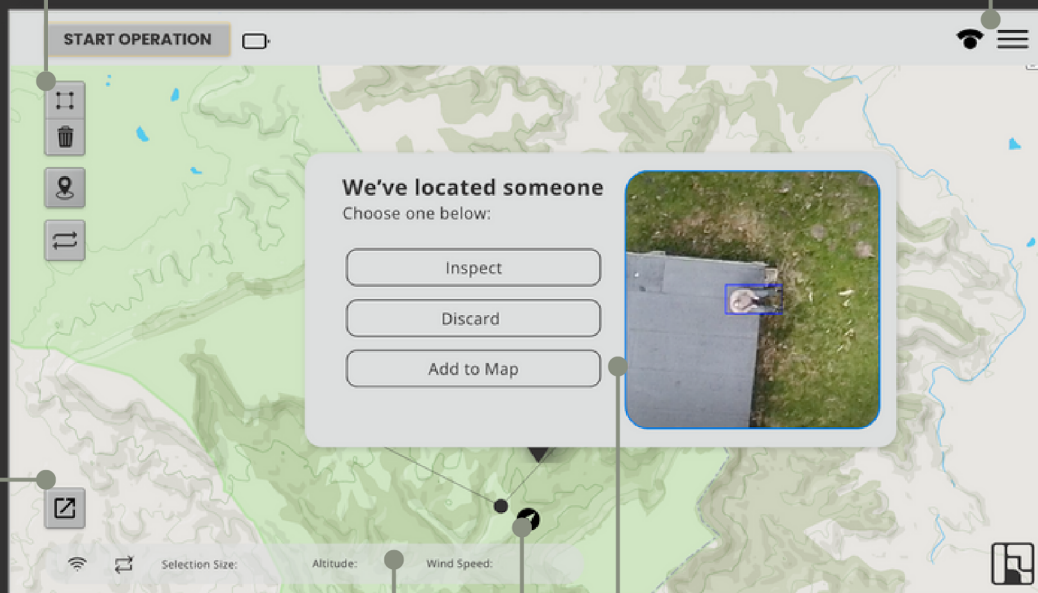
Check out the interface to see what you can expect when adding Robotto to your security system.

UNDERSTAND THE MISSION

Check on the current mission and drone settings when you need through these easy side panels.

YOU CHOOSE WHERE TO OPERATE

Select your property, animal sanctuary, or national park. Choose a smaller area for a specific mission or conduct a through overview for peace of mind.



VIEW A LIVE FEED

Want to see what's going on? Go right ahead! Expand the video feed easily and keep an eye on the situation on the ground.

DETECTION ALERTS

When the AI's detected a person, you're alerted at once, then given the ability to inspect, taking over control of the drone, discard the detection, or simply add a pin to the map.

INFORMATION AT YOUR FINGERTIPS

Key mission information, displayed at all times allows you to ensure the mission is progression successfully.

THE DRONE IN REAL-TIME

See the movement of the drone as it completes the mission in real-time.

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A person wearing a cap and a light-colored shirt is seen from behind, reaching up to adjust a motor on a drone. The drone is suspended in the air, and its propellers are visible. The background shows a field of tall grass or crops under a clear sky. The text is overlaid in the center of the image.

**Choose the Hardware
that works for you**

Robotto UAVs

Robotto Hawk

Hardware	Key Specifications
- Dimensions	Unfolded, propellers excluded, 810×670×430 mm (L×W×H). Folded, propellers included, 430×420×430 mm (L×W×H) ¹
- Weight (with single downward gimbal)	Approx. 3.6 kg (without batteries). Approx. 6.3 kg (with two TB60 batteries) ²
- Max Takeoff Weight	9 kg ³
- Max Flight Time	55 min ⁴
- Max Speed	S mode: 23 m/s, P mode: 17 m/s ⁵
- Max Wind Resistance	Max Wind Resistance 15 m/s (12 m/s when taking off or landing) ⁶
- Operating Temperature	-20°C to 50°C (-4°F to 122°F) ⁷
- GNSS	GPS+GLONASS+BeiDou+Galileo ⁸
- FPV Camera	Resolution: 960p, FOV: 145°, Frame rate: 30 fps ⁹
- Intelligent Flight Battery (TB60)	Capacity: 5935 mAh, Voltage: 52.8 V, Battery Type: LiPo 12S, Energy: 274 Wh, Net Weight: Approx. 1.35 kg, Operating Temperature: -4°F to 122°F (-20°C to 50°C) ¹⁰

Robotto Falcon

Hardware	Key Specifications
- Wingspan	2.5 Meters
- Weight (with batteries)	Approx. 15 kg
- Max Takeoff Weight	9 kg ³
- Max Flight Time	Up to 150 minutes
- Max Speed	25 m/s
- Max Wind Resistance	Max Wind Resistance 15 m/s (12 m/s when taking off or landing) ⁶
- Operating Temperature	-20°C to 50°C
- Thermal Sensor	Uncooled VOx Microbolometer
- Color Lens Focal Length	13.5 mm (equivalent: 58 mm)
- Thermal Resolution	640×512 @ 30 Hz
- Temp Measurement	Spot Meter, Area Measurement

Upgrade your team

Robotto Docking Station

Hardware	Key Specifications
Total Weight	105 kg
Dimensions	Dock Cover Opened: 1675×885×735 mm (L×W×H) Dock Cover Closed: 800×885×1065 mm (L×W×H)
Input Voltage	100-240 VAC, 50/60 Hz
Max Input Power	1,500 W
Operating Temperature	-35 to 50° C (-31 to 122° F)
Number of Drones	Single drone use
Drone Compatibility	Robotto Hawk or Robotto Falcon
Max Landing Wind Speed	12 m/s
Processing Capabilities	Built in processer and server for closed computing
Weather Station	Included

Robotto Brain

Hardware	Key Specifications
Total Weight	50g
Dimensions	120x120x54mm
AI Performance	100-240 VAC, 50/60 Hz
GPU	1,500 W
CPU	-35 to 50° C (-31 to 122° F)
Memory	Single drone use
Storage	Robotto Hawk or Robotto Falcon
Power	12 m/s



Join Us in Protecting the Future

At Robotto, we stand at the intersection of technology and conservation. Through our Anti-Poaching Drone Aerial Detection Solution, we are not just innovating; we're creating a ripple effect of positive change for wildlife, local communities, and the planet at large.

We invite you to be part of this transformative journey. Whether you're a conservation organization, a wildlife reserve, a tour operator, a farmer, or simply an individual passionate about wildlife protection - we're here to empower you with technology that makes a difference.

Let's together create a world where wildlife thrives, biodiversity flourishes, and every species, no matter how small or large, can live freely without the threat of poaching.

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Contact Us Today

Start your journey towards a more secure and sustainable future for our wildlife. Reach out for more information, request a demo, or schedule a consultation with our team.

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Website: www.robotto.ai

Follow us at @robottoco for the latest updates, news, and insights from the field of conservation technology.

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