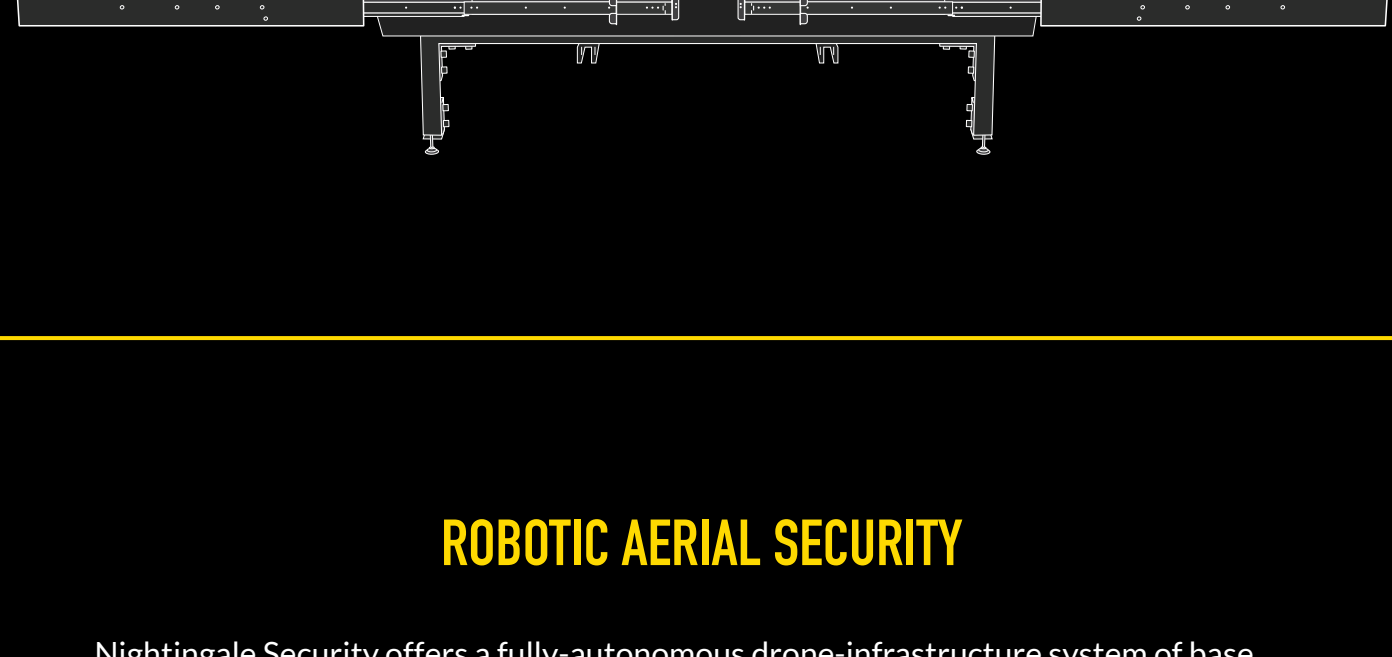


NIGHTINGALE SECURITY

THE SMARTEST EYES IN THE SKY



ROBOTIC AERIAL SECURITY

Nightingale Security offers a fully-autonomous drone-infrastructure system of base stations, drones and software to provide autonomous, 24x7 physical security using real-time aerial surveillance cameras and data gathering sensors.

30

MINUTES PER FLIGHT

45

MINUTES TO RECHARGE

60

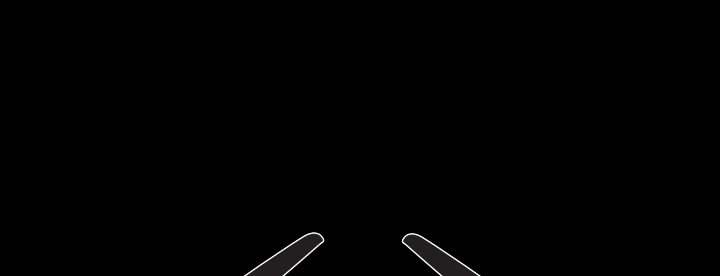
MPH TOP SPEED

5

SENSOR OPTIONS

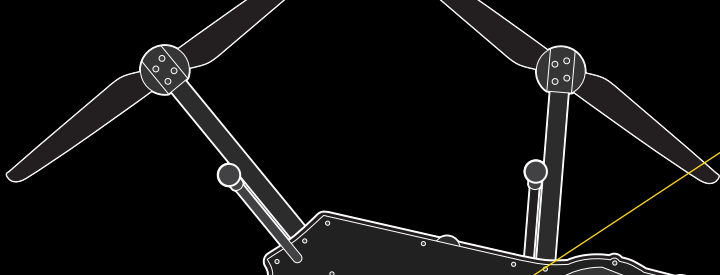
BLACKBIRD

The name of our drone pays homage to the historic SR-71 Blackbird of the United States Air Force—a long-range strategic reconnaissance aircraft.



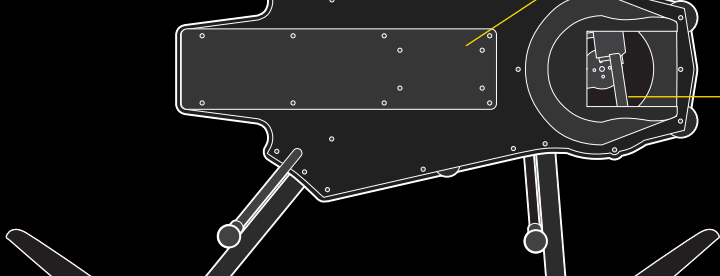
BRUSHLESS HEAVY-LIFT MULTI-ROTOR

An extremely efficient and powerful motor with solid-core copper windings provides failure free operation in extreme climates.



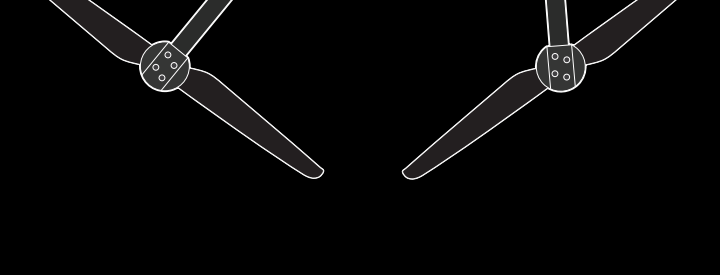
CARBON FIBER HONEYCOMB CHASSIS

A carbon fiber composite and a honeycomb design provide a strong and lightweight frame for reliable industrial use.



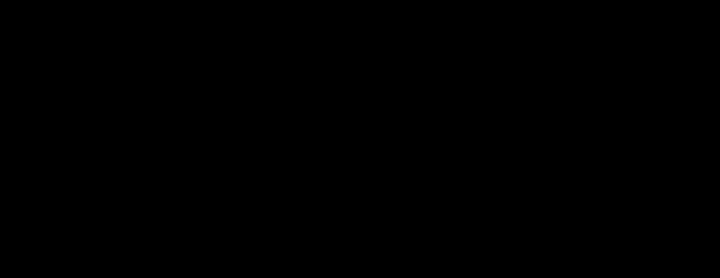
TUNED PROPULSION SYSTEM

Precision balanced, carbon fiber blades are tuned to maximize motor efficiency and a regenerative braking system captures energy to recharge the battery.



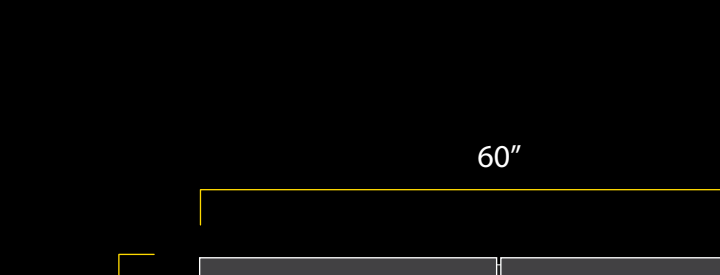
LIGHTWEIGHT SONAR SENSOR

A sonar sensor embedded in the drone chassis enables precision landing and altitude control.



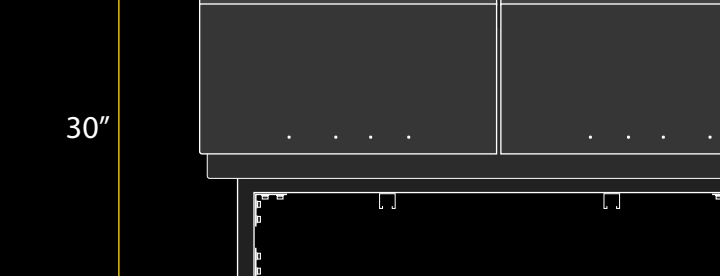
LONG-LASTING QUICK-CHARGE BATTERIES

High capacity, dual battery system provides autonomous charging with an integrated real time monitoring system for safe and reliable charging.



HIGH PRECISION STABILIZING GIMBAL

A low power consumption gimbal is enclosed in a carbon fiber dome. Standard sensors: IR tracking camera and an HD 1080p RGB camera. Optional sensors: Thermal, Lidar, Hazmat.



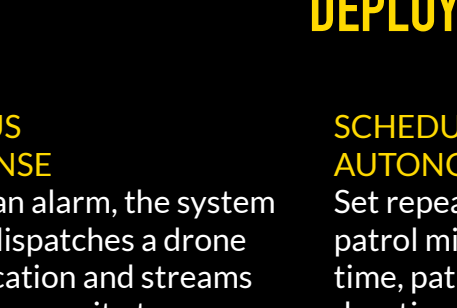
MISSION CONTROL SOFTWARE

Our patent pending software provides Autonomous Remote Operations so no human intervention is needed to maintain operational continuity 24x7.

- Control everything, anytime, from anywhere
- Watch live video feeds from multiple drones
- Configure mission flight path, hover duration, etc.
- Intelligent Path Planning (IPP)
- Simultaneously stream video and sensor data

- Command all drones at multiple facilities
- Object recognition and following
- Manually control drones, cameras and sensors
- Static obstacle avoidance
- Accessible on PC and mobile devices

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DEPLOYMENT SCENARIOS

AUTONOMOUS RAPID RESPONSE

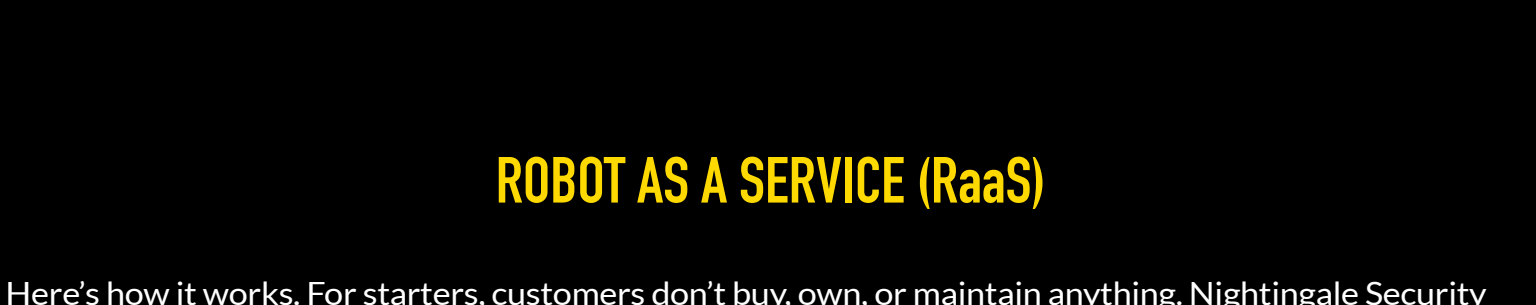
When there is an alarm, the system automatically dispatches a drone to the alarm location and streams live video to the security team.

SCHEDULED AUTONOMOUS PATROLS

Set repeatable, autonomous patrol missions based on day, time, path, altitude, hover duration, camera direction, etc.

MANUAL SURVEILLANCE MISSION

During a major event such as an oil spill, chemical leak or fire you can manually dispatch a drone to monitor the unfolding events.



ROBOT AS A SERVICE (RaaS)

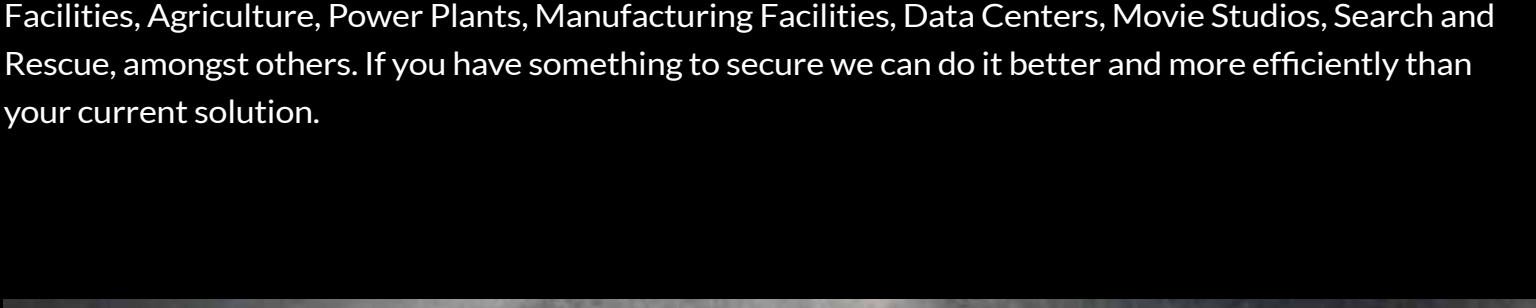
Here's how it works. For starters, customers don't buy, own, or maintain anything. Nightingale Security provides a Robotic Aerial Security subscription service based on a monthly fee / annual contract – we call it Robot as a Service (RaaS).

Depending on your facility requirements, Nightingale Security installs, integrates and maintains all hardware and software. We provide comprehensive Maintenance, Repair and Upgrade (MRU) support which includes everything needed to keep the system operating smoothly and continuously. We'll keep you up-to-date with all the latest features and system upgrades and we're open to partnering with you to develop additional applications for your specific needs.



CORPORATE APPLICATIONS

Our autonomous Robotic Aerial Security service offers numerous capability expanding use cases and applications for various industries including: Oil and Gas, Critical Infrastructure, Solar Farms, Corporate Facilities, Agriculture, Power Plants, Manufacturing Facilities, Data Centers, Movie Studios, Search and Rescue, amongst others. If you have something to secure we can do it better and more efficiently than your current solution.



DRONE SPECS

- Flight time of 30 minutes (fully loaded with sensors)
- Inductive charging replenishes batteries in 45 minutes
- Operational radius of 4 km
- Long range encrypted WiFi (~2km) or cellular-based C3 (Command, Control & Communication)
- Gimbal mount camera sensor stabilization
- Video stream formats supported: Adobe HDS, RTMP, HLS, Microsoft Smooth, MPEG DASH, RTSP/RTP
- Allows sensor swapping for additional capabilities
- Precision landing for automated base docking/charging
- Dustproof and Weatherproof (rain, snow)
- Dimensions: 94 cm wide x 74 cm long x 18 cm tall

BASE SPECS

- Rooftop mountable with Unistrut Metal Framing System
- Automated lid opening and closing
- Powerful internal PC supports OTA updates and allows for future extensibility
- Autonomous inductive charging of drone
- 25V @ 15Amp – 45 minutes to recharge
- Cellular, WiFi or Cable network connectivity
- Dustproof and Weatherproof (rain and snow)
- UPS backup power for emergency operations
- Sensors monitor base station health and surroundings
- Dimensions: 152 cm wide x 152 cm long x 63 cm tall



415.796.6464
www.nightingalesecurity.com
demo@nightingalesecurity.com

