



**YOSEKS**  
Working for your business

**Easy Aerial**   
Above & Beyond

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# AUTONOMOUS DRONE-IN-A-BOX SOLUTIONS

Surveillance, Monitoring and Inspections



**Easy Aerial offers the most versatile airborne security and data collection systems on the market today. Going above and beyond the standard one-size-fits-all solution, only Easy Aerial offers options tailored to a variety of operational requirements.**

Available in three configurations - tethered, free-flight (untethered) and the industry's first tethered/free-flight hybrid configuration, each of our portable drone-in-a-box solutions can be further customized to meet any security, mapping, and inspection needs.

Developed and proudly built in the U.S, Easy Aerial's durable, cost-effective solutions have proven operational experience – even in the most demanding of environments. They can be automatically deployed and commanded remotely from any location around the world and can take off and land from a moving platform, such as a ground vehicle or watercraft.

Whether conducting perimeter patrols or securing a border, monitoring a crowd or inspecting critical infrastructure, Easy Aerial provides you a reliable eye in the sky for your mission-critical operations.

**Easy Aerial is an ISO9001-certified company.**





## PERIMETER SECURITY



### Military Installations, Industrial Facilities, Border Protection

Easy Aerial provides a fully automated, smart perimeter security solution to easily identify and respond to security threats. Our Smart Aerial Monitoring System (SAMS) deploys autonomously via a triggered sensor or as a pre-programmed routine mission Transmitting HD and thermal feeds in real-time, SAMS provides security personnel with an immediate eye in the sky for better, smarter, and faster decision making.



Fully Autonomous Operation



Day / Night Operation



Durable & Weather Resistant



Auto Target Acquisition & Tracking

## MASS EVENT MONITORING



### Sports and Entertainment, Crowd Control

Easy Aerial's systems provide persistent aerial surveillance for crowd control, event monitoring, and situational awareness. Our on-demand, quickly deployable eye in the sky provides the invaluable intelligence you need to handle any scenario in real-time. Our Smart Aerial Monitoring System - Tethered (SAMS-T) is a portable tethered drone-in-a-box solution offering unlimited flight time and can be deployed from a stationary location, ground vehicle or watercraft.



Fully Autonomous Operation



Tactical & Portable



Continuous Flight



Various Payload Capabilities





## EMERGENCY RESPONSE



### First Responder, Firefighters, Police, Disaster Relief

Whether responding to a fire, conducting a search and rescue mission, providing crowd control, or investigating a crime scene, public safety personnel and first responders demand an in-the-field partner they can count on. Easy Aerial's completely mobile drone-in-a-box solutions provide instant results when and where they are needed. Completely mobile, simply arrive, deploy and monitor – situational awareness has never been so easy.



Fully Autonomous Operation



< 30 Secs. response



Tactical & Portable



> 12 Hours Flight Time

## COMMERCIAL & INDUSTRIAL INSPECTION



### Agriculture, Manufacturing Complexes, Industrial Installations, Critical Infrastructure

Easy Aerial offers customized solutions for a range of commercial and industrial applications. Whether monitoring agriculture, assets or infrastructure, we provide systems optimized for your operational requirements. Choose from tethered, untethered free-flight, or hybrid airframe configurations with multiple sensor payload options for unparalleled security, mapping, and inspection missions.



Preprogrammed Scheduled Inspections



Easy To Use Operation



Extended Flight Time & Coverage



Hd / Thermal / Multi-spectra



# SAMS

## Smart Aerial Monitoring System

Advanced, affordable, and portable, our autonomous free-flight aerial monitoring system can be configured for a variety of operational requirements.

Not only can the drone automatically deploy from an Easy Guard ground station upon a security trigger such as a vibration sensor, fire alarm, or distress call, it also has the ability to self-deploy and recharge for each scheduled mission. With SAMS, each drone can take off from and land in different Easy Guard ground stations, allowing for long-range inspections and monitoring missions while recharging at multiple locations.



### **SAMS-T consists of 3 main components:**

Easy Guard (EG)

Falcon or Osprey Drone

Easy Remote Monitoring Software (ERMS)







# SAMS-T

## Smart Aerial Monitoring System Tethered

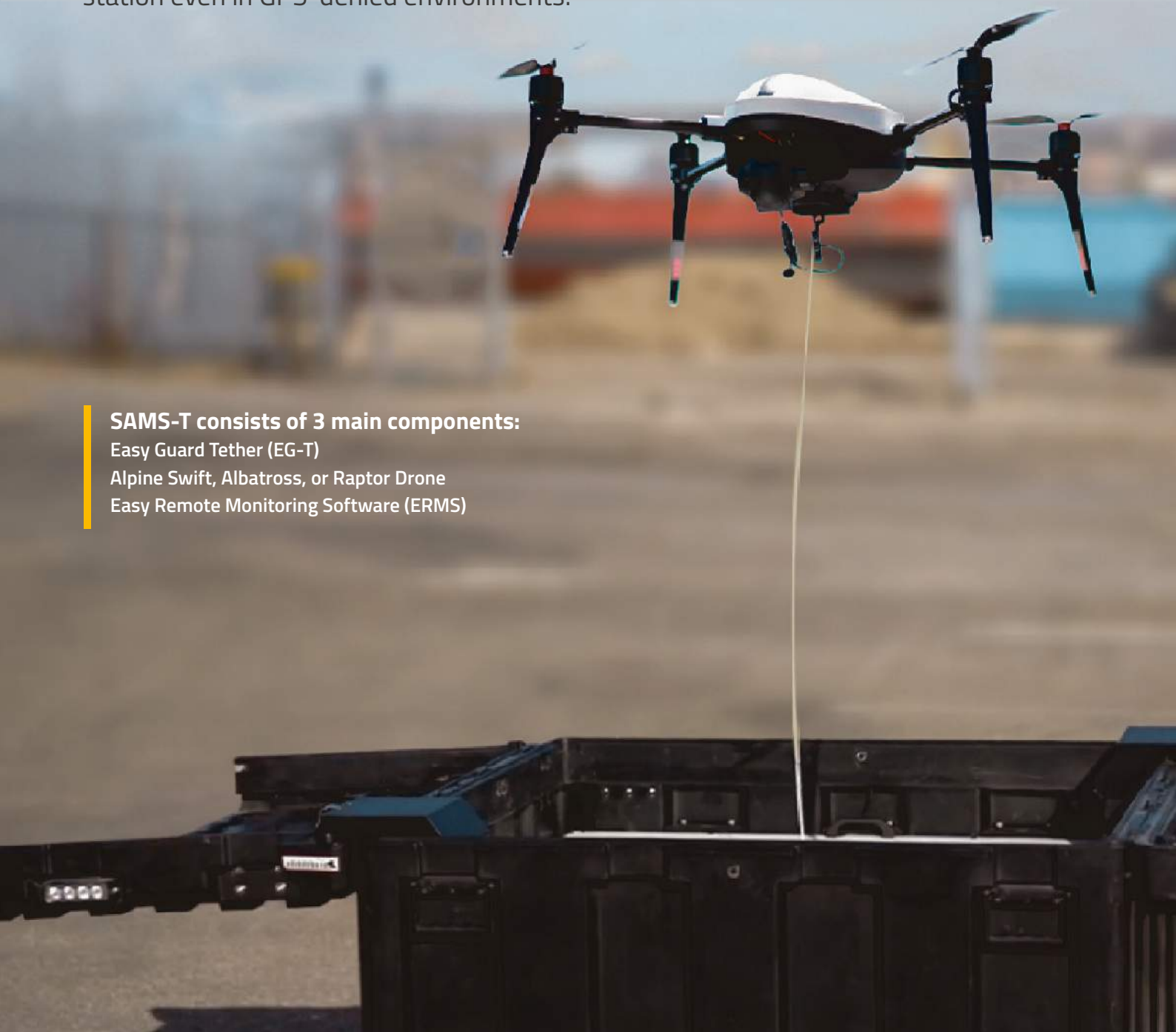
The tethered version of SAMS features unlimited flight time and unparalleled data security. The entire operation, from takeoff to landing, is completely autonomous and can be performed remotely without the need for on-site intervention. The system features a 320-foot data-over-power (DOP) enhanced tether for resilient, unjammable data security. This persistent solution can support continuous flight even in extreme weather conditions, and it offers precise hovering over the ground station even in GPS-denied environments.

### **SAMS-T consists of 3 main components:**

Easy Guard Tether (EG-T)

Alpine Swift, Albatross, or Raptor Drone

Easy Remote Monitoring Software (ERMS)





# SAMS-T MINI

## Smart Aerial Monitoring System - Tethered

SAMS-T-Mini is an ultra-portable version of the SAMS-T that utilizes a miniature version of the EG-T. The unit is housed within a Pelican 1440 case, and is rucksack portable with a weight of 45 lbs, resulting in rapid adaptability and mobility. The SAMS-T-Mini features a 160 or 320 ft cyber-secure smart tether cable with Data-Over-Power (DOP) technology. Aside from the absence of an enclosed EG, the SAMS-T Mini includes all of the features and drones available for the SAMS-T.





# EG

## Easy Guard

Easy Guard ground station is a smart, independent aircraft hangar for takeoff, landing and charging. It features an automated roof opening and closing system and is made from military-grade materials, rendering it mobile, rugged and weather resilient. Easy Guard's relatively small size and weight allow it to be rapidly mobilized and deployed from stationary and mobile launch sites such as a standard pickup truck or other vehicle configuration. Easy Guard is equipped with numerous sensors and four cameras for situational awareness of the deployment site which aides in its ability to receive a landing UAS while both systems are traveling at up to 25 mph.



5 Seconds From Trigger To Airborne | Tactical & Portable  
| Fully Autonomous Landing & Charging | Rugged & Weather Resistant

**Dimensions** 1.17m x 1.17m x 0.62m (46" x 46" x 24.5")

**Weight** 90 Kg (198lb)

**Charging** 35-40 minutes for full drone battery

**Cameras** Internal - Drone inspection | External - Motion activated





# EG-T

## Easy Guard Tethered

Easy Guard Tethered ground station has the same features as the EG, with the addition of a 160 to 330 ft. data-over-power (DOP) smart tether-line that supplies constant power and secure two-way communication to the drone throughout the flight. This feature enables unlimited flight time while also transmitting HD video and telemetry, even in extreme weather conditions, and offers precise hovering over the ground station without the need for GPS guidance. As with the EG, EG-T is lightweight and portable and can be deployed from stationary or mobile platforms. The activation and operation are simple and can be performed on-site or from a remote command center.



Unlimited Flight Time & < 30 Sec Deployment | Tactical & Portable  
| Fully Autonomous Landing & Takeoff | Rugged & Weather Resistant

<b>Dimensions</b>	1.17m x 1.17m x 0.62m (46" x 46" x 24.5")
<b>Weight</b>	105 Kg (231.5lb)
<b>Charging</b>	Constant Power Supply
<b>Cameras</b>	Internal - Drone inspection   External - Motion activated



# POWER GUARD

Power Guard is designed to act as a base for EG/EG-T in the bed of a pickup truck or other installation and provide electric power. The Power Guard enables 20 full charges of the drone battery or 12 hours of continuous tethered flight. Power Guard provides auxiliary electric power to the Easy Guard for an extended period of time without the need for an electric power source or fuel-based generator.



Tactical & Portable | Rugged & Weather Resistant

<b>Dimensions</b>	0.96m x 0.96m x 0.3m (38" x 38" x 12")
<b>Weight</b>	226.7 Kg (500lb)
<b>Charging</b>	100V-240V
<b>Total Power</b>	7,200 Wh



# ERMS

## Easy Remote Monitoring Software

ERMS is a proprietary software system that enables command and control of a single or multiple remotely operated drones, while transmitting high-definition optical and thermal video in real-time. ERMS can be securely accessed anywhere and at any time, enabling users to conduct missions from a command center desktop or in the field with a smartphone, tablet, or proprietary controller.



### THE SYSTEM INCLUDES:

- Secure real-time HD and thermal video feeds
- Intuitive user interface for desktop and mobile
- Automatic mission planning and real-time manual mission override capabilities
- Smart geo-fencing
- Automatic, comprehensive data and telemetry logging
- Integrates with any 3rd party alarm software
- Easily integrate output feed into existing monitoring systems





# FALCON & ALPINE SWIFT

Falcon is a tactical, military-grade, all-weather capable quadcopter with the ability to fly over 65 MPH and carry a wide range of modular optical and sensor payloads, up to 4.4lb.

The Alpine Swift is a tethered version of the Falcon that can carry a 5.5lb payload with unlimited flight time, even in the harshest conditions.



*All EA drones are field-proven and built with qualified traceable components. Only American-made parts are used in critical systems, such as communications modules and flight controllers. All drones are designed, built, and tested at Easy Aerial's Brooklyn, NY. headquarters.*

## FALCON

<b>Weight</b>	3.5 Kg (7.7 lb) w/o payload
<b>Payload</b>	2 Kg (4.4 lb)
<b>Flight Time</b>	45 minutes
<b>Speed</b>	105 km/h (65 mph)
<b>Distance</b>	13 km (8.07 miles)
<b>Endurance</b>	All Weather (Rain, Snow, Fog)

## ALPINE SWIFT

<b>Weight</b>	2.6 Kg (5.7 lb) w/o payload
<b>Payload</b>	2.5 Kg (5.5 lb)
<b>Flight Time</b>	Unlimited
<b>Endurance</b>	All Weather (Rain, Snow, Fog)

Includes an internal battery for emergencies.  
Communication over the power line (DOP).



# OSPREY & ALBATROSS

Osprey Hexacopter is a durable carbon composite drone with motor redundancy for increased reliability. Its slightly overlapping propellers create a relatively compact form factor. The hex configuration makes the airframe ideal for carrying a variety of large payloads or cargo, up to 6.6lb, over longer distances, in adverse weather conditions.

Albatross is a tethered version of the Osprey and the most versatile and secure system in its class. Featuring unlimited flight time, an unbreachable data connection, and a large 8.5lb payload capacity, Albatross is ideal for extremely long overwatch or surveillance flights carrying multiple payloads in harsh weather conditions. Equipped with three hardpoints, the airframe supports a wide range of payloads including gimballed cameras, floodlights, communications relays, loudspeakers, lidar, radar, and communications jamming systems.



## OSPREY

<b>Weight</b>	5.5 Kg (12.12 lb) w/o payload
<b>Payload</b>	3.0 Kg (6.6 lb)
<b>Flight Time</b>	55 minutes
<b>Speed</b>	100 km/h (62.13 mph)
<b>Distance</b>	20 km (12.4 miles)
<b>Endurance</b>	All Weather (Rain, Snow, Fog)

## ALBATROSS

<b>Weight</b>	3.0 Kg (6.6 lb) w/o payload
<b>Payload</b>	3.8 Kg (8.5 lb)
<b>Flight Time</b>	Unlimited
<b>Endurance</b>	All Weather (Rain, Snow, Fog)

Includes an internal battery for emergencies.  
Communication over the power line (DOP).



# RAPTOR

Raptor is a first-of-its-kind hybrid solution with a versatile payload capacity that combines the unlimited flight capability of a tether with the advanced ability of up to 45 minutes of untethered free-flight. Simply untether and go.

Raptor predominantly operates in tethered mode for prolonged situational awareness missions. Following a command from an operator, a triggered alarm, or if the onboard sensors identify a pre-selected object, the tether is released for a free-flight autonomous or directed ISR mission before returning for a precision landing in the ground station.



## RAPTOR

<b>Weight</b>	5.5 Kg (12.12 lb) w/o payload
<b>Payload</b>	3.0 Kg (6.6 lb)
<b>Tethered</b>	Flight Unlimited
<b>Free Flight</b>	45 minutes
<b>Speed</b>	20 km/h (12.4 mph)
<b>Distance</b>	20 km (12.4 miles)
<b>Endurance</b>	All Weather (Rain, Snow, Fog)

Encrypted radio communication (LTE for backup possible)





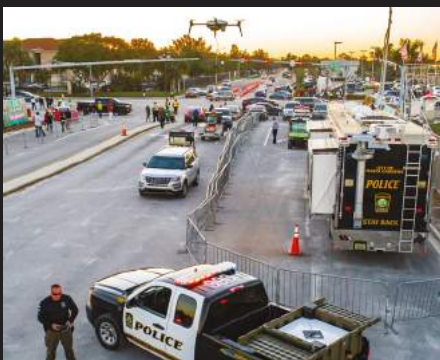
# CUSTOMIZED SOLUTIONS

Easy Aerial proprietary systems are fully customizable and modular. This enables us to go above and beyond the standard one-size-fits-all solution to offer military-grade solutions tailored to meet a variety of operational requirements.

In addition, our versatile software can integrate with any security and C2 systems to enable easy and intuitive operation.

Have a question about Easy Aerial? Not sure which of our solutions is the right fit for your security needs? Want to request a free demonstration?

**Our team is standing by and ready to help.**



Easy Aerial was founded in Brooklyn, NY. in 2015 by a group of aerospace, robotics and software development engineers and former military personnel with a vision to use autonomous UAV solutions to serve, protect and save lives.

Since then, the company has grown in both size and scope. Today, our mission includes not only using drones to protect people, but also assets and infrastructure. Easy Aerial's solutions are also capable of providing situational awareness to emergency first responders, monitoring crowds, and assisting with security management – to name only a few of their many applications.

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