ASYLON

U.S. AIR FORCE

REIMAGINING PERIMETER SECURITY WITH ROBOTICS

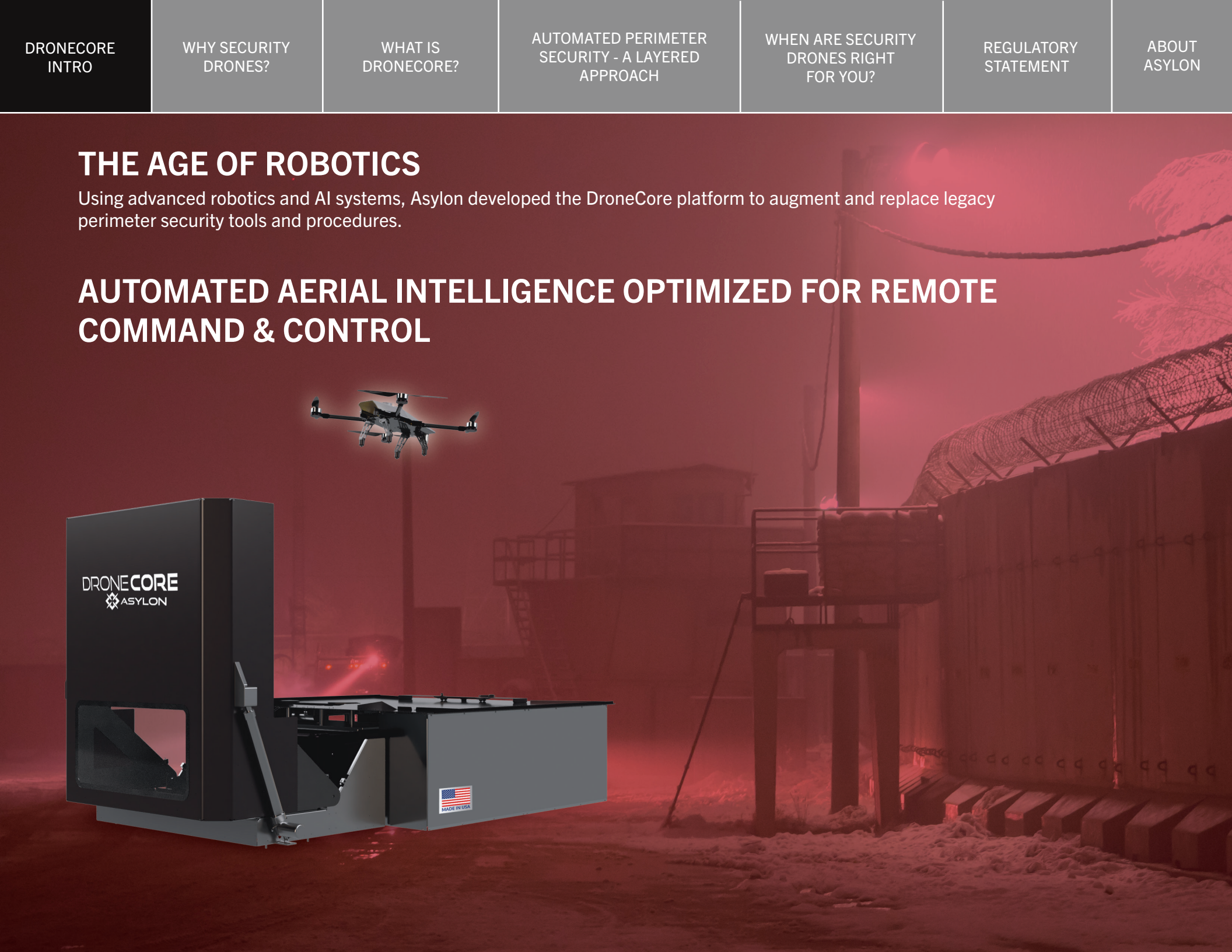
Automated Aerial Security Drones

DEFENSOR FORTIS

THE AGE OF ROBOTICS

Using advanced robotics and AI systems, Asylon developed the DroneCore platform to augment and replace legacy perimeter security tools and procedures.

AUTOMATED AERIAL INTELLIGENCE OPTIMIZED FOR REMOTE COMMAND & CONTROL



WHY SECURITY DRONES?

SPEED & MANEUVERABILITY

What can automated drones do to enhance my security posture? The answer is simple: A flying robotic camera with advanced AI capabilities does not take breaks, does not call in sick, does not get tired and does not pose an insider threat. Robotic security drones automate routine mundane tasks such as perimeter patrols and alarm verification while providing an unprecedented "Eye In The Sky" vantage point, equivalent to hundreds of fixed position CCTV cameras at a fraction of the cost.

GOODBYE TO COSTLY AND TIME-CONSUMING MANNED PATROLS

Robotics are ideal for the three "D's": Dull, Dirty and Dangerous tasks. 99% of a patrol guards time is spent repeating a mundane task in anticipation of the 1% anomaly creating a natural progression for automation. Unlike its human counterpart, security drones are as alert on the last patrol of the graveyard shift as it is on the first patrol of the day ensuring a reliable and predictable security posture. Ultimately doing the same tasks better (we've never met a guard with thermal eyes), safer and at a lower cost.

FAREWELL FALSE ALARMS

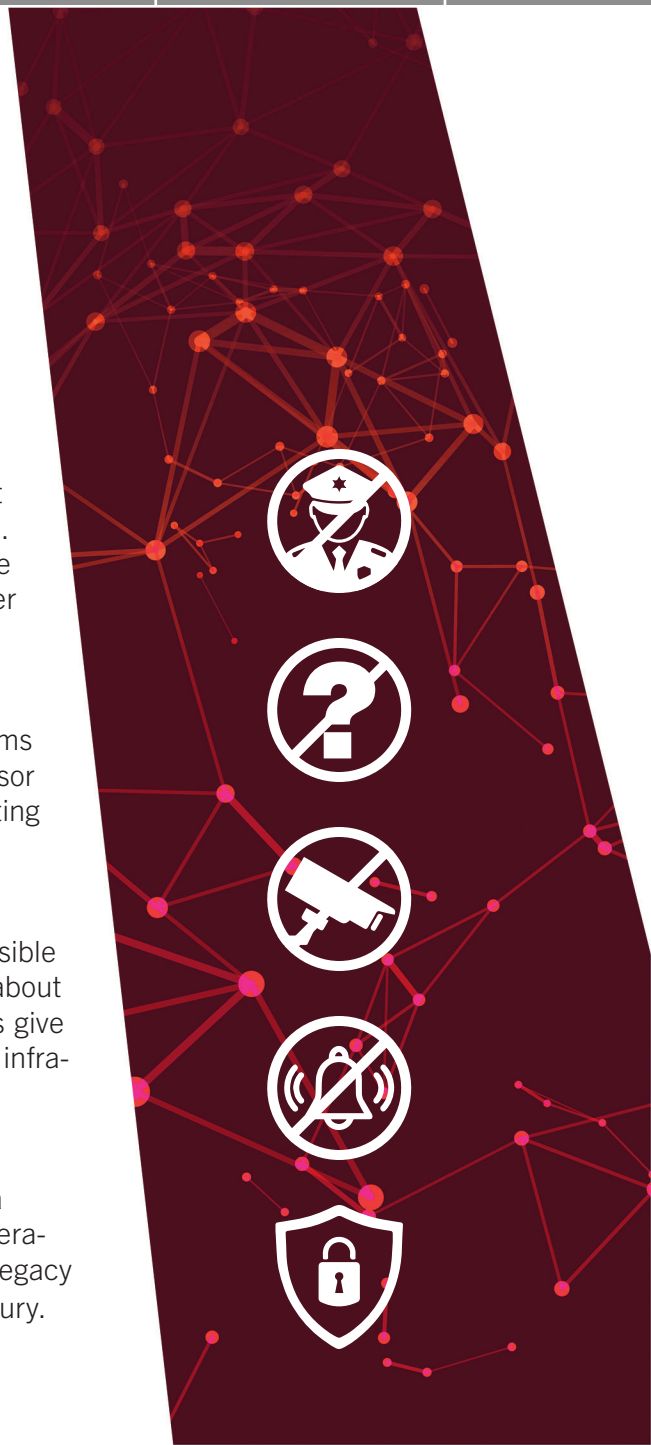
Security drones have the ability to integrate with existing perimeter sensors. Enabling traditionally disparate systems to talk to one another and empowering Security Forces personnel to dispatch an automated robot to verify a sensor alarm before sending a human. This means that your skilled personnel are no longer wasting time investigating alarms set off by trees moving in the wind or risk being put in harm's way without situational intelligence.

SEE YOU LATER CCTV

In addition to better utilizing and de-risking your patrol teams, Asylon's DroneCore platform expands the visible reach of your Base Defense Operations Center to previously uncovered areas of your facility. No need to worry about incurring costly installation charges by adding CCTV cameras to cover hard to reach areas. Security drones give operators a bird's eye view of their facility equal to hundreds of cameras without the costly licensing fees and infrastructure.

PIVOTAL ROLE IN THE SECURITY OPERATIONS CENTER OF THE FUTURE

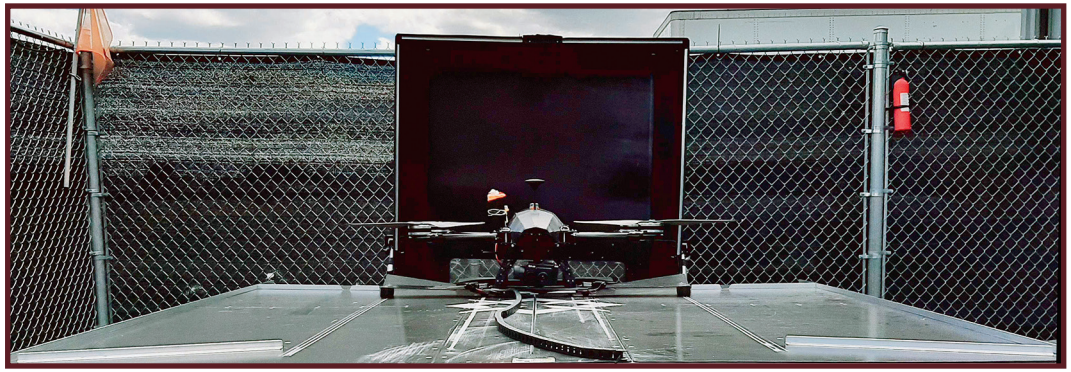
As Base of the Future initiatives begin to be implemented the Base Defense Operations Center migrates from a decentralized approach to a centralized one and automated drones are playing a pivotal role in the security operations center of the future. For the first time security operations has the ability to execute an active response to legacy passive sensors from a centralized remote command center. Upgrading security capabilities into the 21st century.



WHAT IS DRONECORE?

DRONECORE SYSTEM

DroneCore is your 24/7/365 aerial robotic security officer, serving as your primary perimeter security patroller, investigator and deterrent. Hardened to military specs and leveraging the world's most advanced robotics and intelligent algorithms, the DroneCore system makes would-be intruders think twice before they step foot on your property.



DRONESENTRY

A rugged military-grade unmanned aerial vehicle that is connected to the DRONEHOME station. DRONESENTRY can autonomously fly preprogrammed missions, respond to exterior IOT device triggers & provide real-time streaming to multiple users.

DRONEIQ

An open architecture advanced intelligent software platform that enables DRONESENTRY & DRONEHOME to provide coordinated autonomous missions. It is a cloud-based command center that ingests data from individual drones, teams of drones & external IOT devices. DRONEIQ is the universal Command, Control & Communication software that processes drone payload & telemetry data.

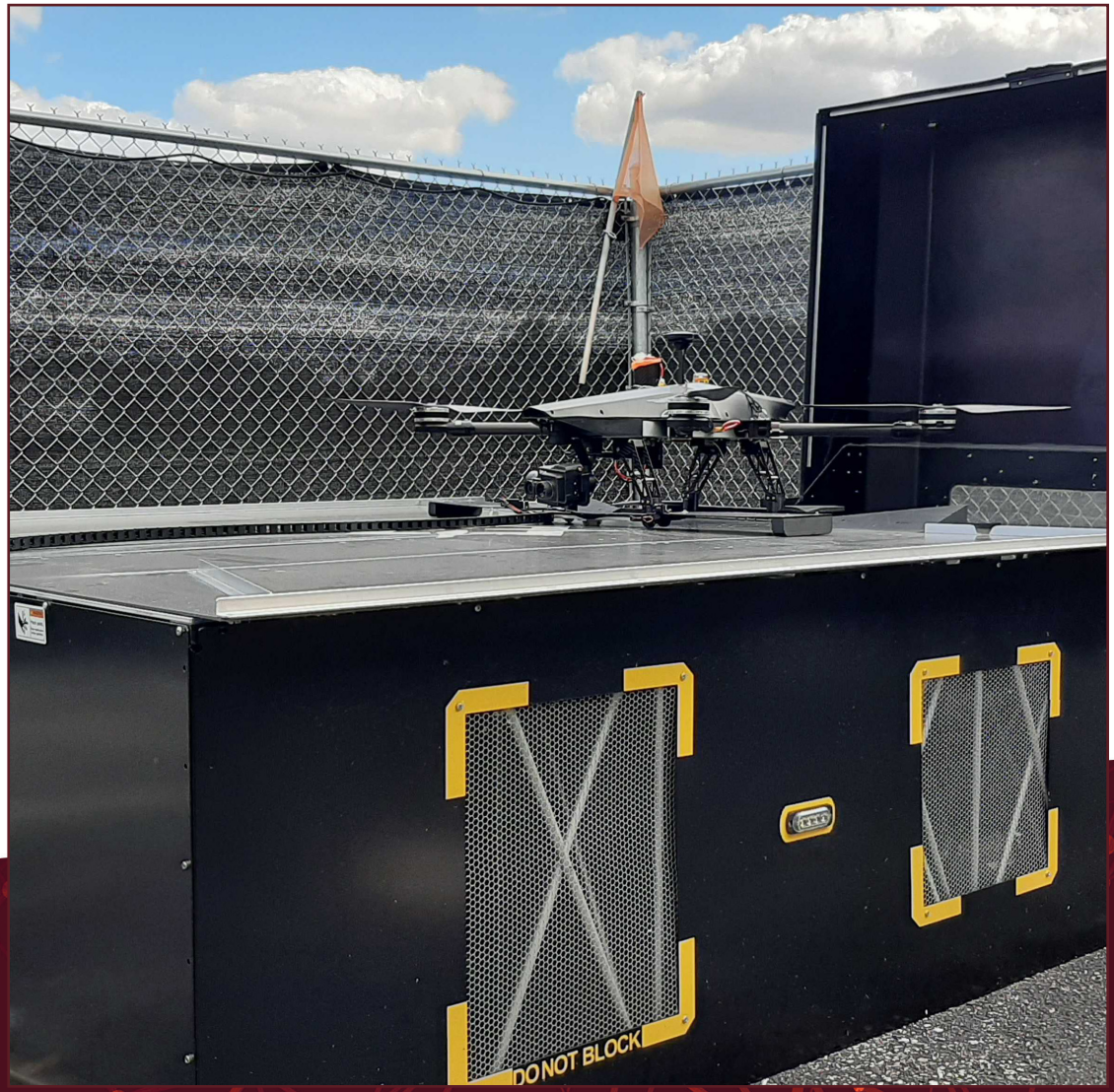
DRONEHOME

A rugged military-grade tactical base station that autonomously manages DRONESENTRY'S battery, payload & data. It protects DRONESENTRY from the elements and houses multiple hot swappable batteries & payload packages.

HOW DOES AERIAL ROBOTIC HARDWARE WORK?

PROVEN AMERICAN MADE END-TO-END ROBOTICS PLATFORM:

- DroneSentry - Modular airframe with multiple payload options. Vetted by DoD and commercial enterprise physical security customers. Over 1000 logged flight hours.
- DroneHome - Modular temperature controlled battery swapping and additional bays for strategic droppable payload applications. Thousands of successful robotic battery swaps in real world conditions ranging from desert conditions to tundra sub-zero environments.
- DroneDog - An industry first capability, launching aerial and ground robotics from a singular automated platform. Providing the worlds first true automated robotic perimeter security platform.



HOW DOES OUR SOFTWARE WORK?

PRIMARY USE CASES:

- Automated Perimeter Patrol
- Automated Alarm Response
- Remote Command and Control

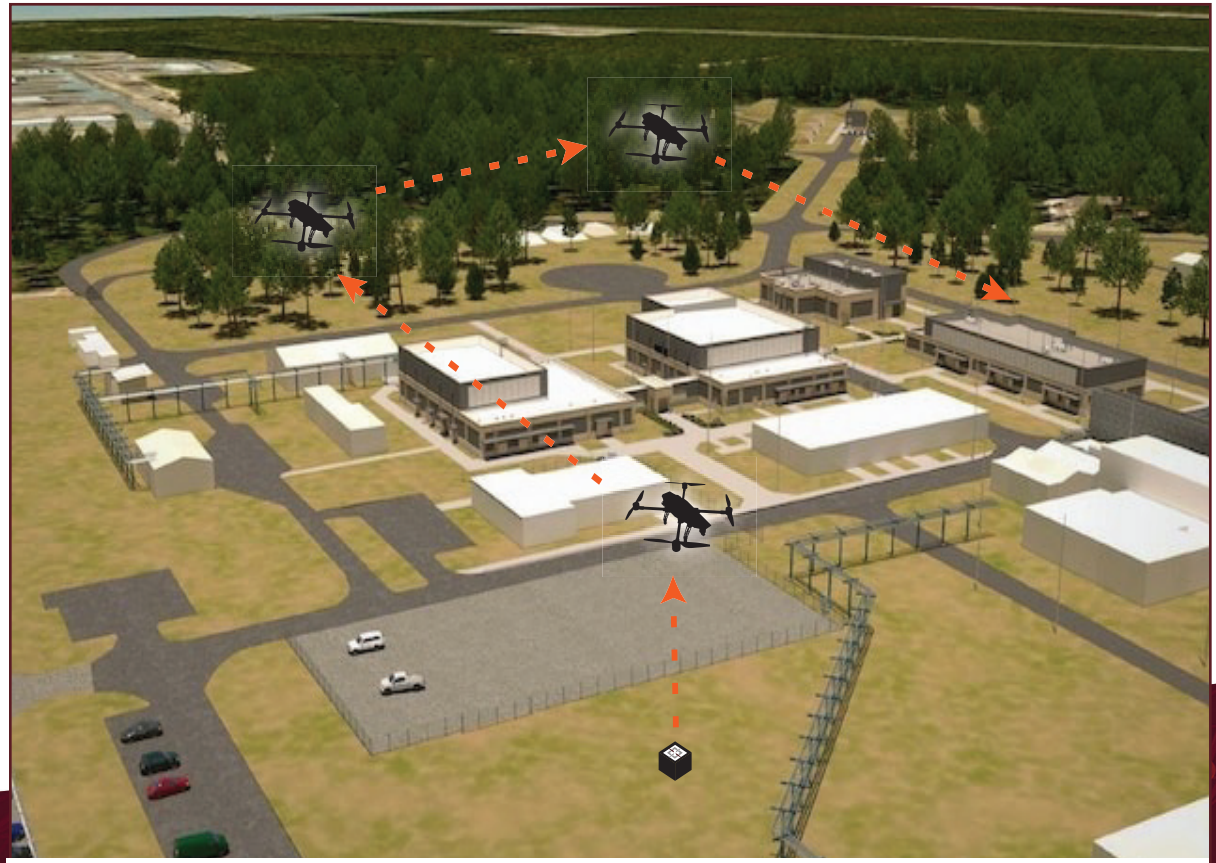
DRONECORE SYSTEM SPECS:

- Open architecture software platform
- Advanced payload menu
- Optimized for Remote Command & Control
- ASTM Compliant Automated Parachute Safety System

AUTOMATED PERIMETER SECURITY- A LAYERED APPROACH

OPEN ARCHITECTURE PLATFORM THAT CONNECTS WITH A VARIETY OF IP-ENABLED SYSTEMS:

- Novetta PICARD – DoD AI Security Operations Platform
- Radar Systems (air & ground classifier detection)
- Thermal Analytic Sensors
- Gunshot Detection
- Fiber Optic Intrusion Detection
- Unmanned Ground Vehicles – All-terrain DroneDog
- Video Management Systems
- Advanced VE Radar Detection
- Intelligent Electrified Perimeter Fencing
- CCTV Perimeter Analytic Intrusion Alarms



ALL-WEATHER CAPABILITY

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20 MINUTE MISSION

35MPH RAPID RESPONSE

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50 MINUTES OF UPTIME PER HOUR

WHEN ARE SECURITY DRONES RIGHT FOR YOU?

CHOOSE ASYLON'S DRONECORE SOLUTION WHEN YOU WANT:

PROTECTION YOU CAN COUNT ON

Fully autonomous and customizable, DroneCore allows you to configure and schedule patrol missions in an unlimited number of variations to provide a consistent yet unpredictable presence that is rarely seen in today's manned patrolling services.

FEWER FALSE ALARMS

Automated alarm response with DroneCore will free up your Security Forces to focus on high-priority tasks and missions while not expending valuable energy and mental focus chasing down false and nuisance alarms.

AN OPEN PLATFORM FOR EASY INTEGRATION

Integrate your existing security technologies to make them smarter and save thousands of dollars by giving new life to legacy systems.

WHEN SPEED IS EVERYTHING, RESPOND TO AN INCIDENT WITHIN SECONDS

Aerial robotics provides a consistent and reliable tool for the BDOC to use for responding to emergency events like intrusions, fire, active shooter and emergency calls within minutes, thereby allowing responding officers to gain valuable time and intelligence before executing their duties.

A BIRD'S EYE VIEW CCTV CAN'T PROVIDE

The ability to observe a facility from 100 plus feet in the air provides a security operations stakeholder with the context and complete picture as an incident unfolds.

AUTOMATED PERIMETER SECURITY REGULATORY STATEMENT

Aviation regulations may vary from base to base and are typically dependent on whether your facility is a standalone air operation or if you share ground and air facilities with other entities like a commercial or general aviation airport or other airborne military branches. In either scenario Asylon's stringent adherence to FAA regulations will formulate the basis for de-risking operations of our DroneCore system at your base.

Asylon currently holds multiple waivers and certifications granted by the FAA and is a current and active member of the FAA Beyond Program (formerly known as IPP) which has resulted in our DroneCore system to be the only robotic drone granted permission to operate at a major US Airport (MEM).

We have full in-house resources for compliance, and we are very experienced at navigating through the regulatory framework on behalf of our customers.

Contact Asylon today for more information or to receive a complimentary feasibility assessment for your facility.

- FAA Waiver for Nighttime Operations (USDOT Waiver # 107W-2019-01175)
- FAA Waiver for Flight Operations Over People (In Process)
- ASTM Certification for our Parachute Recovery System
- FAA Beyond/IPP North Dakota DOT – Participating Technology Partner
- FAA Beyond/IPP Memphis-Shelby County Airport Authority – Participating Technology Partner
- Army Airworthiness Certificate 2018

U.S.ARMY

DEVCOM

FEDERAL AVIATION ADMINISTRATION

TAKE OFF WITH US Memphis INTERNATIONAL AIRPORT

NORTHERN PLAINS UAS TEST SITE

ABOUT ASYLON

ASYLON is an American-made security drone manufacturer headquartered in Philadelphia, PA. Our team contains world-class experts in the autonomous drone space with over 50 years of combined military, civilian and commercial experience. For more information about ASYLON, please visit our website **www.DroneCore.US**

AFWERX DRAPER RAPID SUSTAINMENT OFFICE RSO

MADE IN USA