

ExynAero™ EA6

ExynAI™ Autonomy Features



GPS Denied

Reliably complete missions without using wireless infrastructure, digital maps or GPS.



No Pilot in-the-loop

Exyn's robots fly beyond visual line-of-sight, executing mission objectives intelligently.



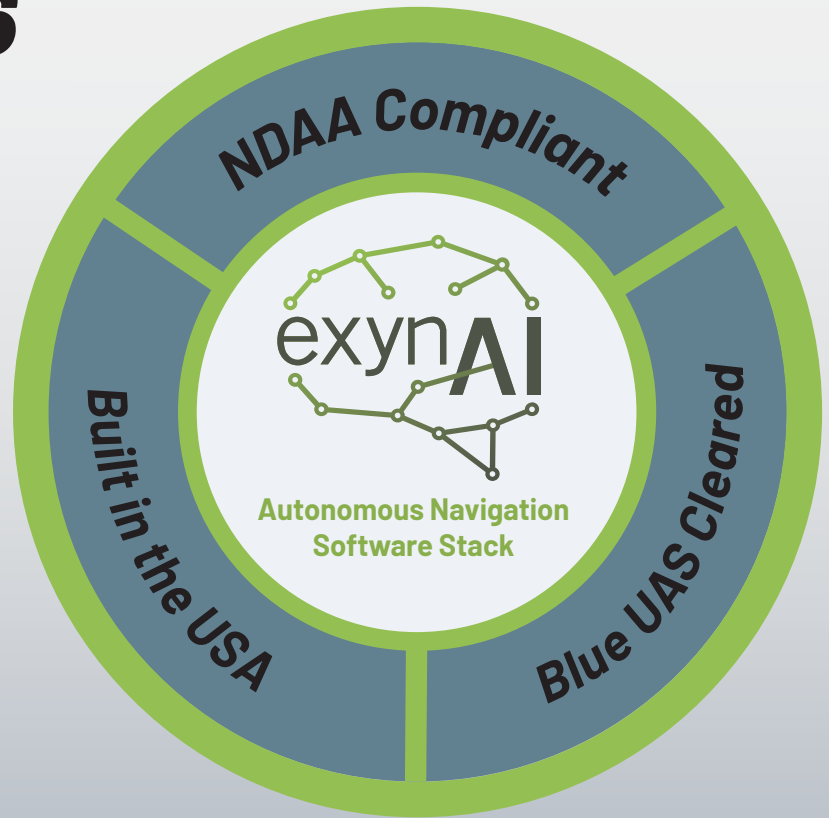
Autonomy Level 4

High level autonomy enables volumetric exploration with intelligent return-to-home.



Real-Time Intelligence

Precise 3D maps created in real time with post-flight sampling & smoothing algorithms via ruggedized tablet.



Platform Features

Integrated Autonomy

Send autonomous missions out of the box with zero drone pilot experience required.



Longer Flight Time

High capacity batteries unlock 20+ minutes of flight time for sending long-range autonomous missions.



Blue UAS & NDAA Compliant

Custom built platform with key components made in the USA to meet the needs of government customers.





System Specifications

Mission Capabilities

- LiDAR based navigation + mapping
- Demonstrated < 3cm 3D spatial accuracy
- Full 3D exploration in GPS-denied and/or dark environments
- Real-time 3D multi-spectral mapping
- On-board execution enables comms-denied/degraded operation
- Multi-sensor fusion
- Output data available in .csv, .ply, or .dxf format

User Interface

- Handheld mission Interface
- Real-time data visualization
- Easy mission setup and one button launch
- Multiple pre-loaded mission modes

Key Sensors

- Velodyne LiDAR Puck LITE™, class 1 laser
- Gimballed system w/ 360-degree field of view
- HD GoPro camera

Data Management

- ~500GB storage for flight data
- Easy data transfer via onboard comms

Other

- 20+ minutes of flight time per battery cycle
- Easily portable via customized Pelican case
- Minimal training needed

