

## PROJECT LIFESAVER UAV PROGRAM



Nearly 50% of children with autism attempt to elope from a safe environment and wander.



Approximately 60% of individuals with Alzheimer's will wander.





## Project Lifesaver UAV

### PROGRAM

The Project Lifesaver UAV Program combines the aerial visibility, reach, and nimbleness of a Lockheed Martin Indago™ unmanned aerial vehicle (UAV) with the proven radio tracking and locating technology developed and implemented by Project Lifesaver International (PLI). The integration of these two powerful resources helps law enforcement authorities dramatically reduce search and rescue times when locating individuals with autism, Alzheimer's, Down Syndrome, and other cognitive disabilities who are prone to wandering away from homes, hospitals, or care facilities.



The Project Lifesaver Indago UAV was developed by Lockheed Martin and Loen Engineering Inc. and is being distributed exclusively through Sentera. Members of the Project Lifesaver UAV Program receive Indago UAV flight training and certification, as well as specialized training on the methods used to communicate with special needs individuals. Having the technical prowess to navigate the Indago UAV is critical, however that is only part of the mission. The at-risk individual may be disoriented, anxious, or afraid. Through Project Lifesaver UAV Program training class, Project Lifesaver team members learn precisely how to approach and communicate with a located at-risk individual, gain their trust, and bring them home safely.



The Project Lifesaver UAV Program comprises the following elements:

- Lockheed Martin Indago UAV, military-grade
- Project Lifesaver receiver and antenna, integrated onto Indago UAV platform
- UAV flight training and certification
- Training for communicating with at-risk individuals

### REACH

The Project Lifesaver program has facilitated over 3,000 rescues and maintains a 100% success rate. The inception of the hand-held receiver reduced traditional search and rescue times from hours and days to around 30 minutes. By utilizing a UAV, search and rescue response times are significantly reduced. The Project Lifesaver UAV Program increases the search area footprint while decreasing the search and rescue times. When using the Project Lifesaver UAV system, search areas are extended to approximately 1.5 miles at hover to over 2 miles above the tree line, offering an affordable alternative to manned aviation search and rescue assets.



## Technology

### PROJECT LIFESAVER BRACELET

At-risk individuals enrolled in the Project Lifesaver program wear a personalized wristband that emits a tracking signal on an exclusive FM radio frequency assigned only to the bracelet wearer. Once the local Project Lifesaver agency is notified of the missing person, a search and rescue team responds to the wanderer's last know location. The Indago UAV is deployed and searching commences using the Project Lifesaver receiver and antenna mounted to the UAV.



Project Lifesaver Bracelet



Project Lifesaver Antenna



Complete Project Lifesaver UAV System

### LOCKHEED MARTIN DIGITAL INDAGO™ UAV

The Lockheed Martin Digital Indago UAV, equipped with a Project Lifesaver antenna, easily fits into a trunk and deploys in minutes, quickly and precisely scanning large sections of a search area. The vertical take-off and landing (VTOL) quad-copter easily maneuvers into confined, congested, vegetation-dense, and remote areas, cost-effectively detecting the missing person's tracking signal at a distance of 1.5-2 miles.



Lockheed Martin Digital Indago UAV

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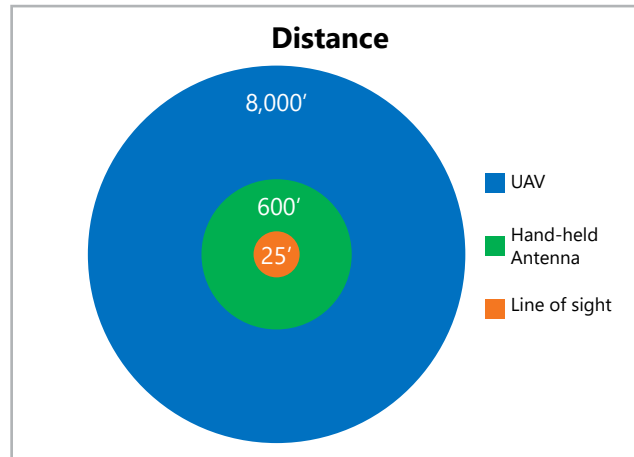
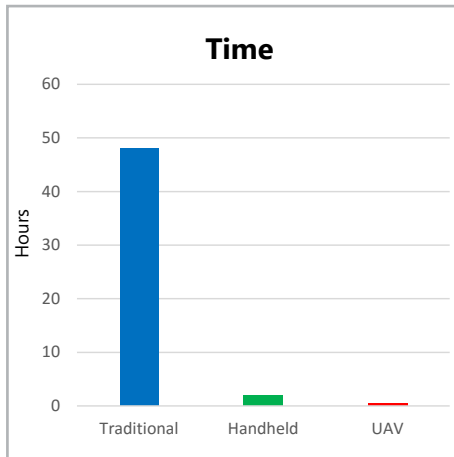
The Indago™ is a highly versatile drone which is compatible not only with the Project Lifesaver antenna, but also seamlessly accepts multiple sensors, ensuring every mission is equipped to capture precise data. Compatible sensors include Lockheed Martin's Duo+ and Ion 30x, and Sentera's Double, Quad, Single, and Sentera-Q sensors.

### INDAGO™ LE PERFORMANCE SPECIFICATIONS

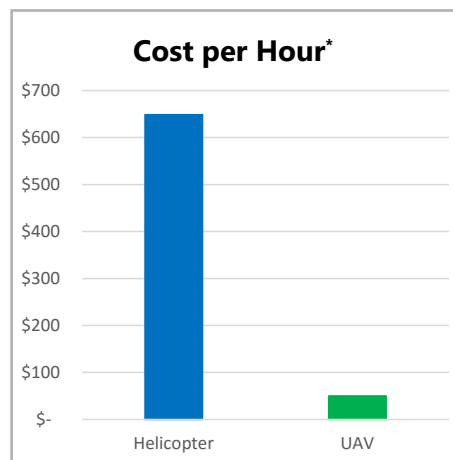
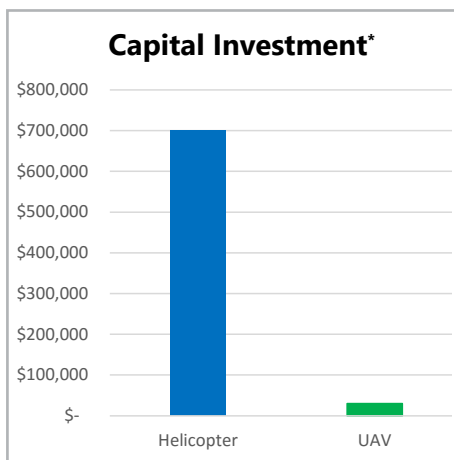
Gross take off weight	5.75lb (2.61 kg)
Size	32 in x 32 in x 7 in (81.28 cm x 81.28 cm x 17.78 cm)
Range	1.2 - 6.2 miles (2-10 km)
Endurance	Up to 50 minutes
Payloads	Multiple, hot-swappable payloads
Operating altitude	10-500' above ground level (AGL)

## Comparisons

### BY SEARCH TECHNIQUE



### BY SEARCH PLATFORM



### ABOUT PROJECT LIFESAVER

Project Lifesaver is a 501 (C) (3) community-based, public safety, non-profit organization that provides law enforcement, fire/rescue, other first responders and caregivers with equipment and training to quickly locate and rescue individuals with cognitive disorders who are prone to the life threatening behavior of wandering, including those with Alzheimer's disease, autism, and Down syndrome. To date Project Lifesaver agencies have conducted over 3,000 successful rescues. Most who wander are found within a few miles from home, and search times have been reduced from hours and days to minutes. Recovery times for Project Lifesaver clients average 30 minutes — 95% less time than standard operations. Nationwide there are over 1,400 Project Lifesaver member agencies throughout 48 states, six provinces in Canada, and Australia.

### ABOUT SENTERA

Sentera is a leading designer, developer, and manufacturer of software, sensors, and drones for the public safety, infrastructure, and agriculture industries. With more than 200 years of combined experience, Sentera is continually looking for ways to help customers increase efficiencies through robust, innovative remote sensing and software solutions. In one year, Sentera's equipment performed 8,000 flights, collected 16 million images, covered 15 million acres, and gathered 175 terabytes of data. Learn more about Sentera at [www.sentera.com](http://www.sentera.com).