# One Engineering | HALO-200

Helping you help others!

HALO-200: CAPABILITY DESCRIPTION

Developed in cooperation with Third Insight, the HALO allows for Artificial Intelligence/Neural network based 3D imaging, navigation, and machine reasoning in a GPS denied and confined environment.

- Light weight-yet flexible body
- Fully shielded for indoor use
- Rugged/Deployable/Waterproof
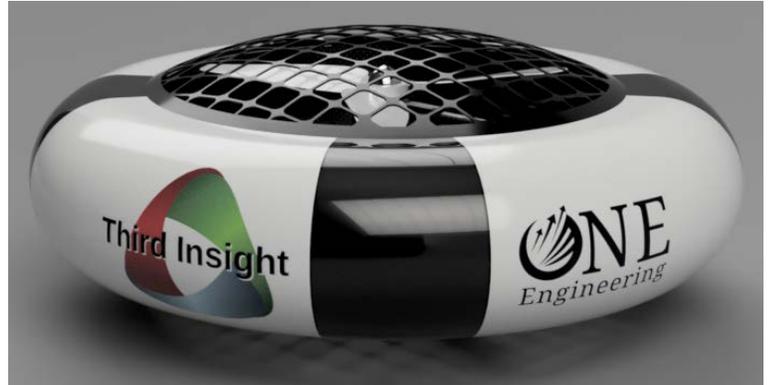
MISSION-RELATED USE CASES

The HALO will support multiple DHS, DOD, and other Government organizations as it has been optimized for indoor, (or outdoor in a cluttered environment) use where most small unmanned aerial systems cannot operate well.

The fully shielded design, robust and flexible disc shape, and developed suite of awareness, avoidance, and assessment algorithms give the HALO unmatched capability to support search and rescue during earthquake, flood, fire, and law enforcement events.

The high degree of autonomy and rugged flexibility make the HALO the ideal tool for the first-responder, law enforcement, and natural disaster response workforce.

PRODUCT SPECIFICATIONS

- Autonomous support operations with full suite of AI/Neural Net-based autonomy
- Sensors – Optical/IR/Acoustic/Day/night capable,
- Fire retardant materials allow for "hot" environments
- 25-30min flight time (altitude & sensor dependent)
- 16″ outer diameter, 4″ thickness at edge
- Real time video stream to GCS (location dependent)

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- Battery-Hot Swap capable (system reboot not required between missions)

- Cooperative multi-HALO support (when network connectivity allows)

- Light-weight, foam based outer shell for safety, waterproof for water recovery

- Storage and transport in rugged containers (5 HALO-200s per box)

SMART CITY INTERNET OF THINGS INNOVATION (SCITI) LABS

The Smart City Internet of Things Innovation (SCITI) Labs program is a collaboration between the U.S. Department of Homeland Security (DHS) Science and Technology Directorate (S&T) and its industry partners to develop smart technologies for public safety and related missions. The program focuses on adapting commercially viable products to meet mission needs in three areas:

- **Smart Buildings**, including sensors and communications;
- **Unmanned Aerial Systems** for indoor and outdoor search and rescue; and
- **Mobile SmartHubs**, combining communications & sensors to increase situational awareness

One Engineering is one of the Unmanned Aerial Systems technology performers for SCITI labs.

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For more information on One Engineering, visit: www.oneworldelo.org

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