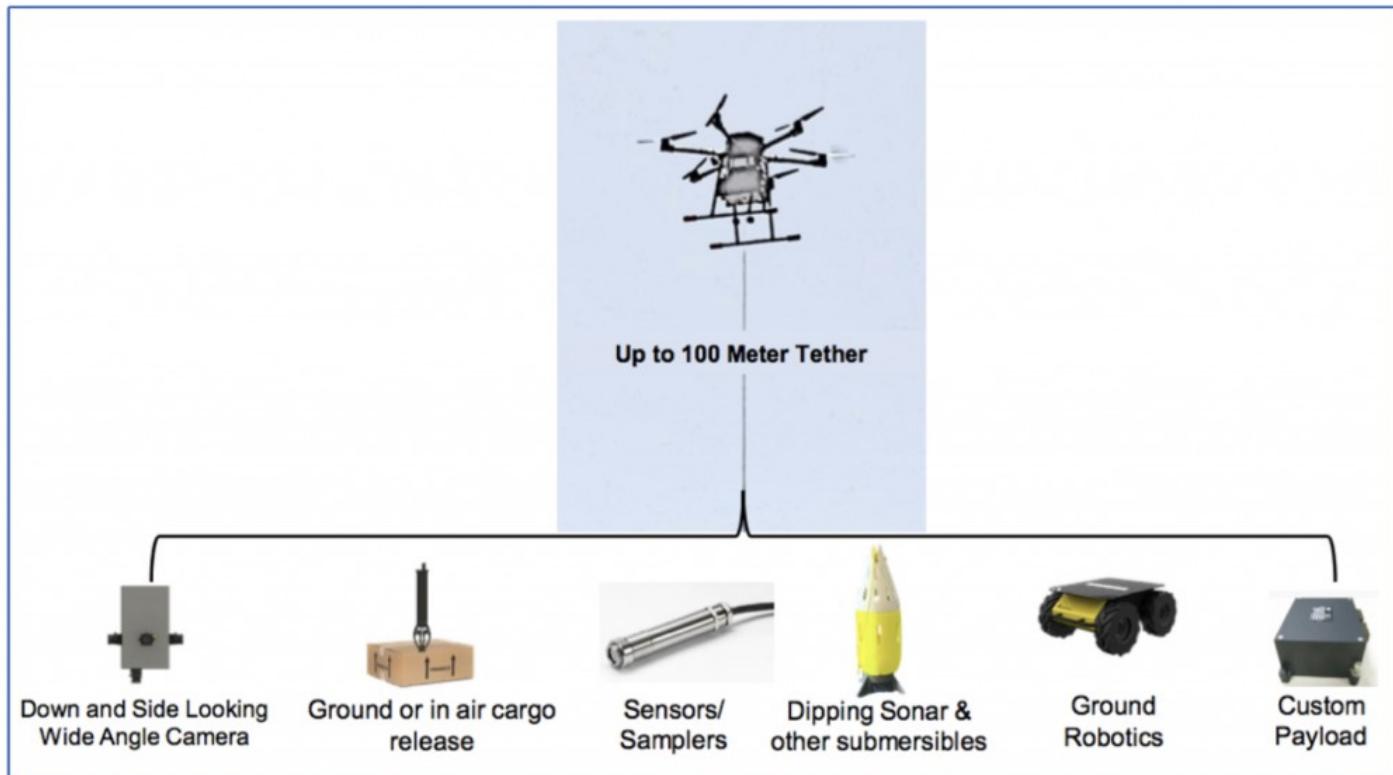


# USOG Smart Winch System™ Demonstrated at ANTX Coastal Trident-22

Drone industries first 'dual purpose' winch system not only transports and delivers physical goods, but the first ever system to collect, transmit and deliver 'information' for customers.



USOG Smart Winch System with Suite of Cargo-Senor Options

**San Diego, California Oct 6, 2022** ([IssueWire.com](http://IssueWire.com)) - Unmanned Systems Operations Group, Inc developer and manufacturer of drone delivery systems successfully demonstrates the USOG Smart Winch System™ to DoD, DHS, and Federal stakeholders during the Advanced Naval Technical Exercise Coastal Trident-2022 (ANTX-CT22) at Port Hueneme, CA (14-15 Sept). The demonstration evaluated the capabilities of a COTS UAS that integrated a radiation sensor payload to detect, store, and transmit radiological data (gamma and neutron) in real time to a remote operator, or Command/Control Center. The USOG Smart Winch System™ (SWS) was integrated with a Sensor Technology Engineering, LLC (Santa Barbara, CA) Linear Radiation Monitor (LRM) radiological gamma and neutron sensor(s) and was remotely lowered and retrieved from a height up to 120 ft AGL.

"ANTX-CT22 provided USOG the opportunity to deploy and demonstrate an integrated system for search, detection, and identification of radiological sources in maritime, or shore environments. The USOG SWS system will provide a UAS standoff search of buildings, vehicles, cargo, or vessels. This capability would enhance DoD/DHS capabilities to remotely and quickly search between stacked MILVAN containers (10 containers high) at sea or ashore. Additionally, the USOG Smart Winch System can be submerged, and provide secure communications with other submersible payload devices such as acoustic transponders, sonars, salinity, temperature, and density sensors in real-time" said Pharns

Genece, Founder and CEO of USOG, Inc.

## USOG Smart Winch System with Suite of Cargo-Senor Options

The USOG SWSTM is our newest advancement to our suite of patent pending drone delivery systems that include: USOG Multi Package Delivery SystemTM (1-2-3 boxes during one sortie), Universal Cargo System TM (biomedical, food, e-commerce cargo - adaptable to 12 different box sizes), and Food Delivery SystemTM (2 x large 16" pizzas, or fast food boxes + beverages).

### USOG Smart Winch System™ Features

- The basic system can lift over 100 pounds with a 100% tether snap load rating
- Optionally powered by drone battery or can be self-powered – adapts to the majority of COTS UAV platforms, expanding customer's choices
- Fully autonomous or manual release of cargo – no gravity-released cargo connectors
- USOG's active "smart" tether carries video, and almost unlimited data format protocols for sensors, and other devices for near real-time transmission to the user
- Tether is fully submersible for sensors, and other cargo that needs to be submerged in salt or freshwater
- Variable tether lengths up to 100 meters - drone lifting capability dependent
- Users can control all SWS functions remotely: start, stop, engage the system, brake, or release cargo
- Multiple pre-flight SWS sortie plans can be created and executed as flight and other conditions change during a sortie
- Optional multiple color low light cameras located on the tether for an 'operator view' (200o FOV)
- Custom cargo and sensors can be easily integrated
- In development - sway control system for precision cargo placement (24-inch accuracy at 100' AGL)

### **About USOG, Inc**

USOG is a leading developer of drone delivery systems designed to carry a broad range of payloads to service the biomedical, food, e-commerce, food, and defense markets enabling customers to operate and scale drone logistics networks for transporting goods or information. USOG recently demonstrated an end-to-end drone delivery system for the first-ever in-stadium food and beverage deliveries from a drone during a series of Purdue University baseball games (<https://www.popularmechanics.com/technology/a39930352/watch-a-drone-deliver-hot-dogs-at-baseball-game>)

***Industry Leader in Drone Delivery Logistics***

For more information, please visit: [www.usog.us](http://www.usog.us)

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