

### TrackLogix FZ LLC









# Introducing-"Life Buoy" Drone



"Life Buoy" drones deployed to the coastline by the National Search and Rescue (SAR) Center and piloted remotely from the Command Centre. Deployed to constantly survey the surrounding coastline for swimmers, small boats, paragliders, paddle boarders seen to be in distress and in need of immediate assistance



## System Overview - "Life Buoy" Drone



Life buoys deployed



Secure dedicated microwave links sending secure high definition live video back to the Command Centre from where the drone is controlled

10-15 km Line of



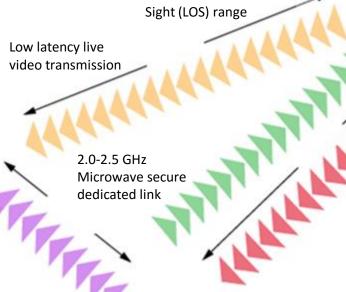


IP Video feed sent to Command

Centre via fiber



Microwave Receive Site at Burj Khalifa





Life Buoy deployed remotely



Police Search & Rescue (SAR) vehicle



Police Search & Rescue (SAR) marine craft

### **Drone with "Life Buoy" Description**



"Life Buoy" drones would ideally have a run-time of 1-2 hours, withstand high wind speeds, have a runtime and broadcast range of up to 10-15 km. There would also be the possibility to deploy multiple life buoys





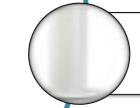
Drone with life buoys attachment and deployment mechanism. Flight and camera control entirely from Command Centre







Miniature microwave transmitter deployed within mechanics of drone: 0.2–to-2 Watts, IP65, COFDM modulation for a robust signal for full motion video (FMV)



Microwave transmit antenna deployed on arm of drone for live streaming video and audio: 3 dBi, 2.0-2.5 GHz range, 6 inches in length





High Definition (HD) video camera: IP65, 14 MP 1080p, thermal camera, built-in spot light capability, microphone and speakers for audio transmission

#### **Mobile Command Centres**



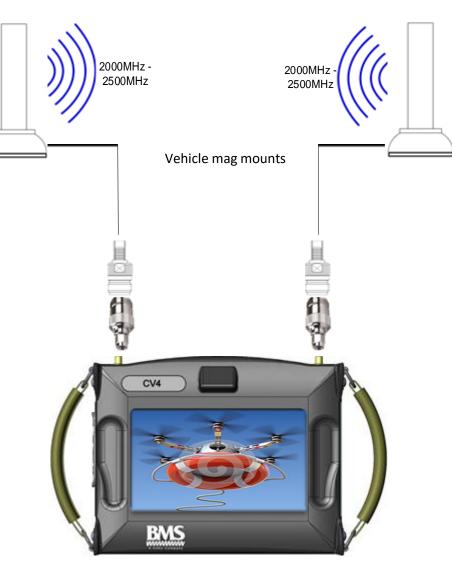




Portable Carry Viewer docked in Police vehicle for viewing video feed in real time



Portable Carry Viewer docked in Police marine craft for viewing video feed in real time



Portable Carry Viewer 4 COFDM microwave receiver

#### **Video Distribution**



From the Command Centre, the live video feed can be distributed to emergency vehicles and teams via IP to multiple work stations and laptops, and to Smart Phones/Tablets via Wi-Fi and 3G/LTE mobile networks





