

Challenges of **Search & Rescue**



Time Criticality

It is very time-consuming for ground team to locate injured and distressed person and coordinate responses in a situation where every second counts.



Terrain Constraints

In most SAR missions, rescue team can face challenging terrains in the form of mountain or rainforest, which might slow the entire operation.



SplashDrone 4



For Search & Rescue

Advantages



Fast Response

SplashDrone 4 can be deployed in just 60 seconds without on-site calibration. With the flight speed of up to 22 m/s, the drone can reach any location that is 1 kilometer away within 50 seconds, regardless of the ground condition.

Situational Awareness

With a 3-dimensional camera shooting up to 4K resolution video, SplashDrone 4 can quickly capture aerieal data of a large area. This allows responders to have a situational understanding of the search zone and pinpoint possible locations where the missing person might be trapped.



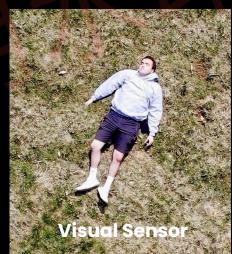


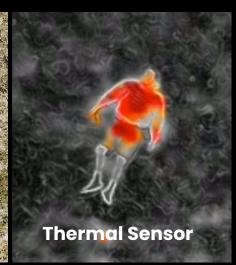


Object Identification

SplashDrone 4 can carry GC3-T - a thermal camera that can detect heat emitted from a warm human body, an animal or a vehicle engine. Rescue team can use the thermal sensor to spot person in distress from a distance, assess their status and environment, even in complete darkness. The camera comes with a 1080P visual sensor that can give you a clear view of the person for further confirmation.







Night Searching

SplashDrone 4 can carry GC3-T and GC2-S, both of which are night vision cameras with a built-in dimmable flashlight. The drone can work as light source to locate missing person at night.





Remote Communication

Carrying a megaphone, SplashDrone 4 can repeatedly broadcast a pre-recorded message making the missing person aware that people are looking for them. Through the megaphone's voice, Operators can alert people to potential threats, offer helpful tips to stranded people and keep them stay calm before the ground team arrive.



Lifesaving Device Delivery

For surf rescue missions, the SplashDrone 4 can carry and precisely drop a life-jacket to people struggling in the water with a PL1-S payload release mechanism. When it comes to mountain rescue, operators can use the drone to deliver first aid kit to someone who is injured. Not only can SplashDrone 4 search for missing persons, it can even help the victims stay alive before rescue team arrive.





All Weather, All Terrain

SplashDrone 4 is rugged design to fight against any element that the nature could throw on it.











- IP67 Waterproof
- Corrosion-resistant
- Floating Design

Rainproof

- Snow-proof
- -20°C working temperature
- Wind resistant up to 33 knots / 31 mph / 60 km/h
 High torque motors
- Sand & dust protection

Unprecedented Cost-Efficiency

While helicopters and airplanes can cost several thousand dollars for a single mission, SplashDrone 4 is just a fraction of the cost than traditional manned aircraft. Plus, rescuers can stay safely on the ground at the staging area.





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Payloads

GC3-T Thermal Camera



GC3-S 4K Camera

GC2-S HD Camera



Sensor: 1/2.3" 12M SONY CMOS Lens: F4.53mm f/2.65, FOV: 92.6°

Stabilization: 3-axis 4K: 3840*2160/30P 2.7K: 2704*1520/60P

FHD: 1920*1080 30/60/120P

HD: 1280*720/240P Photo: 4:3/16:9 12MP



Sensor: 1/2" 2M starlight night

vision CMOS

Stabilization: 2-axis

Built-in Dimmable LED flashlight

FHD: 1920*1080 30/60P HD: 1280*720 120/60P

PL1-S Payload Release

MP1 Megaphone

Dronar Sonar Sensor







Carry and release 2KG stuff at target location.

Send out voice messages at 120 decibel over 300 meter sound with high fidelity sound production.

Scan underwater terrains and objects of up to 130 feet from the air and send sonar images to the SplashDrone's APP.

For Search & Rescue

Cases







Navarre Beach Fire Rescue

Location: Navarre, Florida, USA.

Use case: the emergency responders used SwellPro SplashDrone 3+ to fly an inflatable life-preserver to swimmers, boaters or anyone in distress or drowning in the Gulf.

Learn More









Friendship Fire Company Diving-Rescue Unit

Location: Phoenixville Pennsylvania, USA

Use case: During water rescue operations, they used SwellPro SplashDrone 4 to efficiently drop vital items like personal flotation devices (PFDs), radios, water bottles, and various equipment to individuals who might be stranded. Another mission of the team is underwater recovery where SwellPro Dronar sonar sensor are applied to locate items on river and lake beds.

Learn More

"Let's save the world, smarter!"



