

Search and Rescue

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How can drones help Search and Rescue?

Drones are an important part of many jobs that help society and keep people safe. Search and rescue plays an important role in many careers such as firefighters, police officers, and even the military. Drones can help search and rescue by covering more land faster and easier, thermal cameras pick up a person's body heat or where someone has been to find someone who has gone missing or in a dangerous situation, and a drone can take the risks of being burned or being crushed by keeping a person's life safer.



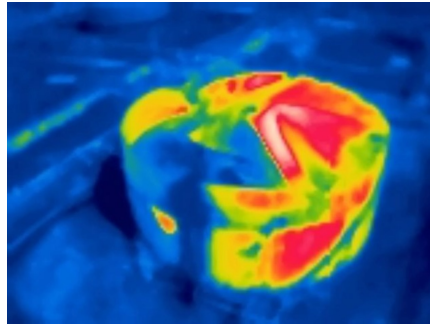
Drones are mechanical devices that are built and controlled by people and robots of all kinds that can be made to be fast or slow, some are big and some are small. “With their ability to swiftly cover large areas, drones drastically reduce the time and manpower needed to locate missing individuals.”-<https://www.dslrpros.com/sar-drones.html>. Drones can be useful because cars and trucks can get stuck in traffic and the person in distress while drones can go over the traffic. Drones can cover large areas in a short amount of time, and provide real-time visual data to rescuers. They can also access areas that may be difficult for rescue personnel to reach, due to factors such as terrain and weather conditions.



What is one thing a person can't do, there can be many things that humans can not do, but one we can say is very important is being able to see other peoples thermal energy. With a very expensive and special camera and drone, rescuers are able to see people in fires or under rubble. “...thermal cameras, which are extensively used in search and rescue missions. These sensors can identify ground objects and humans by detecting their heat signatures, making them easy to spot,

especially in the dark or dense areas.”

<https://www.flytbase.com/blog/drones-for-search-rescue#:~:text=%E2%80%8D-,Q%3A%20What%20are%20the%20benefits%20of%20drones%20in%20search%20and,the%20missing%20person%20in%20time>. The drones can take the heat for the rescuers, whether it be fire or have to rough through the different terrains so not only the rescuers can be safe but the victims as well. The drones make our lives safer but especially those that take their time to make us safe.



Rescuing a person can be extremely dangerous because someone can be stuck in a fire or on a mountain. Drones can scope out the conditions someone is in and come back with information that may decide what rescuers need to bring to help. Drones are able to be repaired faster than healing a person. Some drones can be water proof and fire proof which means that they can go deep into fire and out into the ocean. Drones can take aerial images of the area around it and some you can communicate with an operator on the other end.

In conclusion, drones can help members of Search and Rescue by being able to cover more land quicker, pick up thermal images tracking a person, and be able to withstand dangerous situations. Drones are faster and don't get stuck in traffic, drones can have a feature that shows the heat signals on the ground, and are made to be less damageable and easy to repair. Drones are very useful to our community and our team can help each other to understand the use of drones.

