



:SEARCH AND RESCUE:

New technology and equipment used for RPA search and rescue provides critical support to search and rescue operations.



Search



Identify



Rescue



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"your vision, our focus"



: RPA Search and Rescue (SaR):



In a typical RPA search and rescue scenario, RPAs are deployed in an area of interest, perform sensory operations to gather information, detect the signs or presence of a victim, and send data and imagery to a rescue team on-scene or to remote command station. Unmanned drone search and rescue missions also allow teams to avoid unnecessarily entering hazardous areas while searching a wider area quickly and for less cost than traditional plane or helicopters.

The uses of drones in search and rescue are extensive and can include:

- RPA remote area search and rescue scene assessments
- RPA monitoring of flooded areas after hurricanes or tsunamis
- RPA natural disaster scene search and rescue and scene inspections
- RPA avalanche rescue
- Remote drone monitoring of gas, chemical and nuclear related accidents
- Data gathering at accident scenes including car, train or plane crashes

Sensor technology for drone Search and Rescue missions offer an impressive array of solutions

- RPA FLIR or Forward Looking Infrared is a highly effective way of scanning an area to distinguish land and foliage from the heat given off by humans or animals day or night
- HD Video and Photography allow search and rescue personnel the ability to see areas of interest in fine detail before committing to a rescue plan

Additional sensors can alert rescuers of other dangers such as gas leaks or radiation before entering a rescue scene.





Emergency Services and Disaster Recovery

- Disaster and hazmat monitoring
- Emergency delivery (medicine, equipment, supplies)
- Emergency response coordination (situational awareness)
- Disaster relief and post disaster assessment
- Search and rescue

As the technology continues to advance, and more case studies arise that demonstrate its capabilities, it will be hard to find any industry now that hasn't considered using a drone to improve its services. While some sectors may still be exploring the early possibilities of what this may bring, many Emergency Services organisations are enjoying enhanced capabilities as they add a drone to their day to day operations. Police forces, Fire and Rescue teams and Accident and Emergency responders all now save lives faster thanks to this technology, as do many Search and Rescue (SAR) teams.

:RAPID:

Provides situational awareness over a large area quickly, reducing the time and the number of searches required

:INTELLIGENT:

Provides real-time visual information, data and imagery, day or night

:AFFORDABLE:

Cost effective highly advanced technology

:SAFE:

Highest level of effectiveness in challenging conditions without risk to personnel

:RPA Search and Rescue (SaR):



RPA Search and Rescue will be used by emergency services, such as police officers, firefighters or volunteer rescue teams, ideal for searching over vast areas for missing persons and crime victims in need of rescue and in any environment.

RPAs can provide real-time visual information and data in the aftermath of an earthquake or hurricane. They can also become an eye in the sky to locate a lost person in the mountain for example.

When a disaster or incident threatens lives and livelihoods, emergency responders need information and real-time imagery in order to make better decisions and save time. RPAs can provide situational awareness over a large area quickly, reducing the time and the number of searchers required to locate and rescue an injured or lost person, greatly reducing the cost and risks of search and rescue missions. The possibilities for helping ensure public safety are endless.

They are designed to provide cost effective, real time data and imaging, day or night, in challenging conditions and without risk to personnel. Aiding in the search for missing persons is the infrared (IR) thermal imaging camera that can detect human body heat. This capability greatly increases the ability to find people or objects at night that may be hidden, even during daytime operations.

Applications include:

- Search for suspects and missing persons
- Accident or crime scene investigation/documentation
- Search and recovery missions
- Disaster & emergency analysis

In a few minutes, they transport the eye of the observer just above the location of the incident, sweeping broad surfaces, flying over abrupt, inaccessible, distant or dangerous areas for the people that operate on the ground.

During the day and the night, the operational support provided to the rescue teams by RPAs has demonstrated its effectiveness by cleverly operating over complex areas, often unapproachable, rude and risky.



