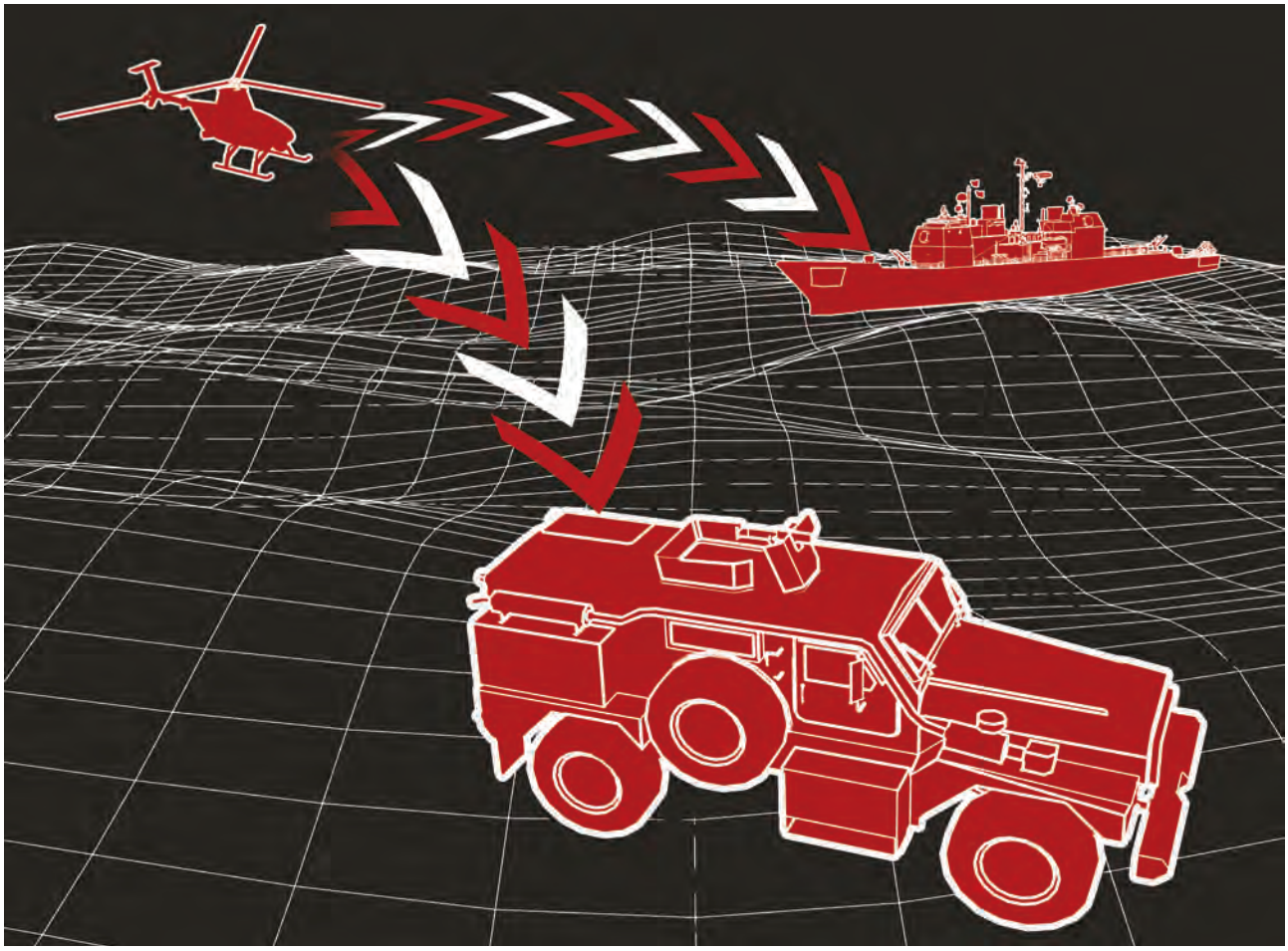
Autoland

Our low cost, self contained landing capability utilises an on-board camera and processing to enable a UAV to land automatically, even when the desired landing platform is in motion.



Key benefits

- Allows a UAV to land without pilot input, eliminating the need for complex communications systems.
- Enables automated landing onto both stationary and moving platforms (ships, trucks, etc)
- Enables covert operation and night landing
- Offers a low cost supplementary / auxiliary landing system for larger platforms

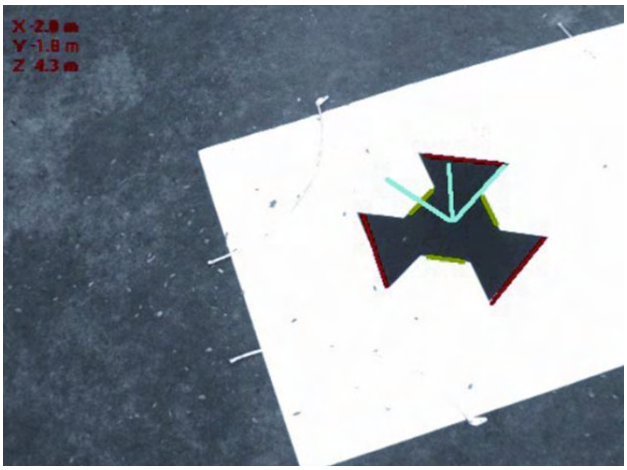
Key features

Calculate position	The system is able to calculate the position of the landing area relative to the vehicle, producing x, y and z along with roll pitch and yaw values.
Rapid updates	Positional updates occur at the frame rate of the camera being used, providing up to date information to the UAV flight control system. This is essential for tracking a moving landing area.
EO/IR compatibility	Interoperable with a wide range of cameras, in both visual and infrared spectrum. The camera on your UAV may already be suitable for use with our system.
Covert operation	Utilising a passive sensor allows for covert operation without the need for communications, active landing aids or radar transmissions.
Low cost system	Competitive systems require expensive sensors and communications equipment. Our approach offers similar functionality at a significantly lower price.
Reduced infrastructure	There is no requirement for active landing aids or Inertial Sensors at the landing site, allowing operation from moving, improvised or temporary sites.
Scaleable	Our system is able to operate as a primary landing system for most classes of UAV. However for larger platforms its low weight and size allows it to be integrated with existing landing systems to provide secondary landing capability.

Requirements

The system utilises Full Motion Video from an onboard camera. The system is able to work with IR and visual spectrum imagery. We can assist the system integration issues associated with using existing cameras or with the specification, location and installation of dedicated cameras for the landing function.

Our lightweight, proprietary code is supplied as a windows or linux executable along with an API. We are also able to provide you with processing hardware should it be required.



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