

Aircraft Situational Awareness



For large planes, pilots need assistance dealing with blind spots to increase their situational awareness (SA) of the external state of the aircraft. SA includes terrain, threats, and weather.



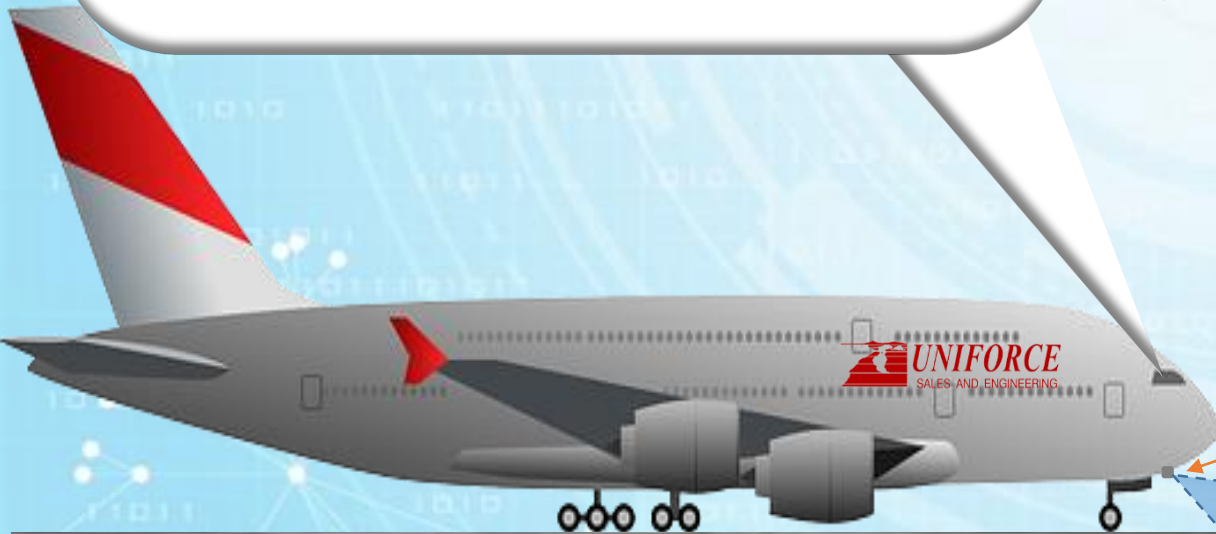
Solution:

A CCD camera is an environmental enclosure housing and mounted underneath the nose of the plane. The environmental enclosure is ruggedized, water-resistant, and can operate in altitudes up to 60,000ft and temperatures of -60°C to +100°C. The housing also has the option of being fully hermetic, Nitrogen purged.

The camera is able to view the aircraft's blind spot and transmit the video to a monitor in the cockpit for the pilot to see.

Multiple cameras within the environmental enclosure housing can be mounted in the various blind spots of the aircraft to improve the pilot's external SA.

The system can be utilized with other large vehicles besides aircrafts including boats, big rigs, tanks, etc.



CCD Camera in Environmental Enclosure housing.